KLJ GROUP
SINCE 1967

Corporate Office:
KLJ House, 8A, Shivaji Marg, Najafgarh Road, New Delhi-110 015, India
Tel.: +91 11 41427427/28/29 | Email: delhi@kljindia.com

Branch Offices:
Mumbai : +91 22 61830000 mumbai@kljindia.com
Chennai : +91 44 42383622 chennai@kljindia.com
Kolkata : +91 33 22823851 kolkata@kljindia.com
Ahmedabad : +91 9289590026 ahmedabad@kljindia.com

International Offices:
Dubai | Singapore | Doha

#23-006/W&C

www.kljindia.com

KLJ GROUP
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... sustaining life with natural footprints

TOTAL SOLUTION FOR WIRE & CABLE INDUSTRY

World class plants strategically located in India, Thailand & Qatar having installed capacity of over 650,000 tpa with backward integration for Phthalic Anhydride and Chlorine

One stop Total Solutions provider for all the Plasticizer needs

COMPLETE RANGE OF PLASTICIZERS

Phthalate | Adipate | Trimelliate | Citrate | Stearate | Benzoate | Sebacate | Maleate | Polymeric | ESBO | Chlorinated Paraffins

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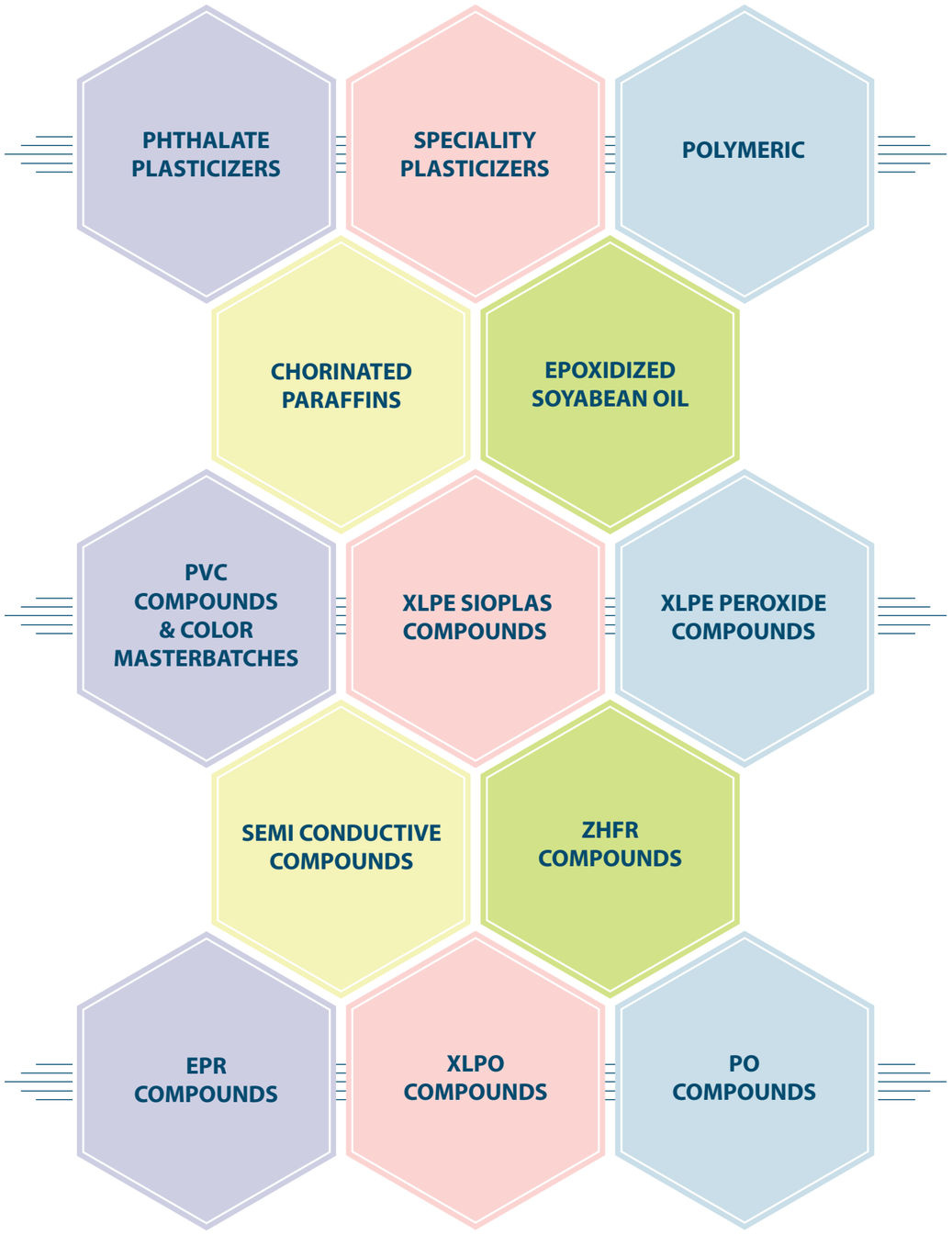
TOTAL SOLUTION FOR WIRE & CABLE INDUSTRY



PRIMARY PLASTICIZERS

Properties	Unit	Test Method	KANATOL 1212 Di Do Decyl Phthalate	KANATOL 1210 Di Un Decyl Phthalate	KANATOL 1001 Di Iso Decyl Phthalate	KANATOL 1010 Di Propyl Heptyl Phthalate	KANATOL 900 Di Iso Nonyl Phthalate	KANATOL 800 Di 2 Ethyl Hexyl Phthalate	KANATOL 1056	KANATOL TM 8-10 (L) Tri Octyl Decyl Tri Mellitate (Linear)	KANATOL 3800 Tri Octyl Tri Mellitate	KANATOL HT9	KANATOL 40S n Butyl Stearate	KANATOL 8S Di Octyl Sebacate	KANATOL 8080 Bis 2 Ethyl Hexyl Terephthalate	KANATOL 9A Di Iso Nonyl Adipate	KANATOL 8A Di Octyl Adipate
Appearance	NA	Visual	Water white clear liquid														
Colour (Max.)	Hazen	ASTM D 1045-08	40	50	20	20	20	20	20	100	50	40	60	40	20	40	30
Specific Gravity at 27°C	NA	ASTM D 1045-08	0.942±0.003	0.952±0.003	0.963±0.003	0.961±0.003	0.973±0.003	0.983±0.003	0.983±0.003	0.977±0.003	0.989±0.003	0.969±0.003	0.857±0.003	0.913±0.003	0.983±0.003	0.922±0.003	0.923±.003
Refractive Index at 27°C	NA	ASTM D 1045-08	1.480±0.003	1.482±0.003	1.485±0.003	1.485±0.003	1.486±0.003	1.486±0.003	1.486±0.003	1.487±0.003	1.487±0.003	1.488±0.003	1.447±0.003	1.450±0.003	1.487±0.003	1.452±0.003	1.487±0.003
Volatile Loss at 130°C for 3 Hours (Max.)	% by mass	KLJ TM	0.10	0.10	0.10	0.10	0.10	0.10	0.15	0.10	0.10	0.10	0.20 (at 110°C for 2 Hrs.)	0.20	0.10	0.10	0.10
Moisture Content (Max.)	% by mass	ASTM E 203-08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Acidity as Acid (Max.)	% by mass	ASTM D 1045-08	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.15 (AV)	1.00 (AV)	0.02	0.01	0.03	0.02
Heat Stability at 180°C for 2 Hours	Hazen	IS 9591:2013	No Change	No Change	No Change	No Change	No Change	No Change	No Change	No Change	65	No Change	No Change (at 150°C for 2 Hrs.)	No Change	No Change	50	40
Acidity After Heat Treatment at 180°C for 2 Hours (Max.)	% by mass	IS 9591:2013	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.05	-	-	0.03	0.03	0.05	0.04
Ester Value	mg KOH/gm	ASTM D 1045-08	223±3	236±3	251±3	251±3	267±3	287±3	287±3	277±3	306±3	271±3	172±5	263±3	287±3	281±3	303±3
Ester Content (Min.)	% by weight	ASTM D 1045-08	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.0	99.0	99.5	99.0	99.5	99.5	99.5	99.5
Plasticizing Ester By GLC (Min.)	% by area	KLJ TM	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.0	99.0	99.5	99.0	99.5	99.5	99.5	99.5
Residual Alcohol (Max.)	% by area	KLJ TM	0.20	0.20	0.10	0.10	0.10	0.10	0.10	-	0.10	0.10	-	0.10	0.10	0.10	0.10
Viscosity at 20°C	cPs	KLJ TM	-	118-124	105-111	117-123	76-82	79-85	71-77	107-113	271-277	-	8-14 (at 25°C)	58-64	60-66	19-25	12-18 (at 25°C)
Boiling Point at Atmospheric Pressure	°C	IS 5298:2005	-	-	400	-	-	386	-	-	-	-	343°C	-	400	-	335
Boiling Point at Reduced Pressure	°C	IS 5298:2005	-	-	-	251-254 at 7 mmHg	250 at 7 mmHg	231 at 7 mmHg	-	-	283 at 13.2 mmHg	-	-	248 at 5 mmHg	-	233 at 5 mmHg	-
REACH Compliance	Y/N	-	YES	YES	YES	YES	YES	NO	NO	YES	N.A.	YES	YES	YES	YES	YES	YES

SECONDARY PLASTICIZERS

KANACHLOR CHLORINATED PARAFFIN

Grades / Properties	Unit	Test Method	42 WH	42 WAX	45 D/AD/ AI/AD1	47 WH 1	50 WH	52 D/AD/ AI/AD1	52 KD 5	62 D/AD/ AI/AD1	62 KD 5
Colour (Max.)	Hazen	ASTM D 1045-86	200	300	60	250	300	60	100	100	100
Specific Gravity at 27°C	N/A	ASTM D 1045	1.180±0.020	1.200±0.020	1.200±0.020	1.210±0.030	1.280±0.020	1.280±0.020	1.280±0.020	1.400±0.030	1.400±0.030
Refractive Index at 27°C	N/A	ASTM D 1807	1.503±0.002	1.506±0.002	1.498±0.002	1.503±0.003	1.520±0.003	1.509±0.002	1.510±0.002	1.526±0.003	1.525±0.003
Volatile Loss at 180°C for 4 Hours (Max.)	% by weight	KLJ/QCD/WIN/26	2.00	0.80	3.00	1.40	0.80	1.50	4.00	0.90	3.00
Chlorine Content	% by weight	ISI 1448-77	42±2.0	42±2.0	45±2.0	47±2.0	50±2.0	52±2.0	52±2.0	62±2.0	62±2.0
Free Mineral Acidity (Max.)	% by weight	KLJ/QCD/WIN/24	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Free Chlorine (Max.)	% by weight	ISI 9189-79	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Viscosity at 27°C	Poise	Brookfield Viscometer ASTM D 445	15-40	50-100	2-5	15-25	300-800	12-35	10-25	300-1200	200-600
Heat Stability at 180°C for 20 Minutes (Max.)	Colour	KLJ/QCD/WIN/28	Brown	Brown	Yellow	Light Brown	Brown	Yellow	Brown	Dark Yellow	Brown
Thermal Stability at 175°C for 4 Hours (Max.)	% by weight	KLJ/QCD/WIN/27	0.40	0.20	0.10	0.20	0.40	0.10	0.20	0.10	0.20
pH Value (Min.)	-	KLJ/QCD/WIN/29	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

Note: Specific grades of CPW can be made on request.

The above list contains only a few representative grades out of a comprehensive list of regular grades available.

RoHS All the above products are complying to RoHS requirements.

The above properties are indicative and represent the values as tested in our laboratories. There is no guarantee/warranty whatsoever. Suitability of the product for particular application may be verified before use.

EPOXIDIZED SOYBEAN OIL

Trade Name / Properties	Unit	Test Method	KANAMOLL 650 ESBO	KANAMOLL 620 ESBO
Appearance	NA	Visual	Pale Yellow Clear Liquid	
Colour (Max.)	Hazen	ASTM D 1045-08	150	150
Specific Gravity at 27°C	N/A	ASTM D 1045-08	0.996±0.006	0.990±0.006
Moisture Content (Max.)	% by mass	ASTM E 203-08	0.10	0.10
Acidity as Acid (Max.)	% by mass	ASTM D 1045-08	1.0±0.2	1.0±0.3
Oxirane Value	%	KLJ TM	6.5±0.1	6.2±0.1
Iodine Value (Max.)	g I2/100 g	KLJ TM	3	5
REACH Compliance	%	KLJ TM	YES	YES

Pioneer in Polymer Compounding with an installed capacity of over 200,000 tps & expanding

High capacity Automated Plants to ensure consistent quality at strategic locations i.e. Silvassa, Agra & Kutch (upcoming)

PRODUCTS RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi Conductive | EPR | ZHFR | PO | 3LP | PP | EP | TPR | TPE | EVA | Colour/Performance Masterbatch

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KLJ VINYL (PVC COMPOUNDS)

KLJ offers PVC Compounds for Wire & Cable Industry for both Insulation & Sheathing Applications. The products conform to various National/International Standards such as IS 5831/IS 694/ IRS/BS 7655/IEC 60502 etc

	Specific Gravity	Hardness (Shore A)	Thermal Stability at 200°C	Before Ageing		After Ageing		Variation After Ageing			Volume Resistivity at 27°C	Applications
				Tensile Strength	Elongation at Break	Temp.	Time	Tensile Strength	Elongation at Break	Loss of Mass		
Unit	NA	Nos.	Minutes (Min.)	N/mm² (Min.)	% (Min.)	°C	Days	%	%	mg/cm² (Max.)	ohm-cm (Min.)	
Test Method	ASTM D 792	ASTM D 2240	IS 5831	IS 10810 (Part 7)		IS 10810 (Part 1)		IS 10810 (Part 11)		IS 10810 (Part 10)	IS 3396	
Grades												
KLJ 19 SPL	1.31±0.02	92±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	Skin Coating Compound/Type A IS 5831/TI-1 BS 7655
KLJ 20 SPL	1.36±0.02	92±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	Skin Coating Compound/Type A IS 5831/TI-1 BS 7655
KLJ 20 SPL RoHS AR AT	1.36±0.02	92±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	Skin Coating Compound RoHS/REACH Compliants With Anti-Termite/Anti-Rodent Properties
KLJ 21 WCP B	1.42±0.02	91±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	Insulation CPW Free Compound Type A (IS 5831)/TI1 (BS 7655)
KLJ 21ND	1.45±0.02	91±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	General Purpose Insulation, Type A (IS 5831)/TI1 (BS 7655)
KLJ 48	1.48±0.02	94±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	General Purpose Insulation, Type A (IS 5831)/TI1 (BS 7655)
CG 18	1.50±0.02	88±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	General Purpose Insulation/Sheathing Type A/D (IS 5831)/ TI1 (BS 7655)
CG 18 LF	1.50±0.02	88±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	General Purpose Insulation/Sheathing Type A/D (IS 5831)/ TI1 (BS 7655) RoHS Compliants
KLJ 04 HM	1.54±0.03	94±2	80	12.5	150	100	7	±25	±25	2	$1x10^{13}$	General Purpose Sheathing/Insulation Type A/ST2 (IS 5831)/TI1/TM1(BS 7655)
CG B138 SM	1.36± 0.02	96±2	100	12.5	135	100	7	±25	±25	2	$1x10^{14}$	Type B Insulation for Railway Signaling/Telecommunication Wire
KLJ 12 B1 RDSO	1.40± 0.02	96±2	100	12.5	135	100	7	±25	±25	2	$1x10^{14}$	Type B Insulation for Railway Signaling/Telecommunication Wire
KLJ 08I	1.35±0.02	93±2	240	12.5	125	135	10	±25	±25	-	$1x10^{13}$	Heat Resistant upto 105°C (Operating Temperature)
KLJ 09M HR	1.36±0.02	95±2	100	12.5	125	135	7	±25	±35	-	$1x10^{13}$	Heat Resistant upto 85°C (Operating Temperature)
KLJ 40	1.43±0.02	82±2	80	10	150	80	7	±20	±20	2	-	Flexible Sheathing ST3 IS 5831/TM2 (BS EN 50363-4-1)
KLJ 30 CC R	1.42±0.02	80±2	50	12.5	150	80	7	±20	±20	2	-	General Purpose Flexible Sheathing ST3 (IS 5831)/ TM2 (BS EN 50363-4-1/RoHS Complaints
KLJ 34B	1.45±0.02	84±2	50	12.5	150	80	7	±20	±20	2	-	Sheathing for Submersible/Flat Cables ST1 (IS 5831)/TM1 (BS EN 50363-4-1)
KLJ 21ND LF	1.45±0.02	91±2	80	12.5	150	80	7	±20	±20	2	-	RDSO Sheathing ST1 (IS 5831)
CG 86 T	1.46±0.02	84±2	50	12.5	150	80	7	±20	±20	2	-	General Purpose Soft Sheathing ST1/ST3 (IS 5831) TM2 (BS EN 50363-4-1)
CG 96A	1.60±0.02	94±2	80	12.5	150	80	7	±20	±20	2	-	General Purpose Sheathing ST1 (IS 5831)
KLJ 05 H	1.52±0.02	96±2	80	12.5	150	100	7	±25	±25	2	--	General Purpose Sheathing
KLJ 04 FR B2*	1.50±0.02	91±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	FR Sheathing/Insulation General Purpose
KLJ 04 FR HS*	1.45±0.02	92±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	Insulation FR RoHS/REACH meets IS 694
KLJ 09M HR FR *	1.39±0.02	95±2	100	15	150	135	7	±25	±35	-	$1x10^{13}$	HR FR Insulation 85°C Type C (IS 5831)
KLJ FRLS M1**	1.56±0.02	96±2	80	12.5	150	100	7	±25	±25	2	-	Flame Retardant & Low Smoke Sheathing
KLJ FRLS M1 ES P**	1.56±0.02	96±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	Flame Retardant & Low Smoke Insulation/Sheathing
KLJ FRLS M1 G 40**	1.60±0.02	96±2	80	12.5	150	100	7	±25	±25	2	-	Flame Retardant & Low Smoke (<40), Low HCl (<14) Sheathing
KLJ FRLS EC **	1.52±0.02	95±2	100	12.5	150	135	7	±25	±35	-	$1x10^{13}$	Flame Retardant & Low Smoke Insulation Type C as per IS 5831
KLJ FRLS C1 **	1.52±0.02	95±2	80	12.5	150	80	7	±20	±20	2	$1x10^{13}$	Flame Retardant & Low Smoke Insulation Type A as per IS 694
KLJ FRLS M1 HVR**	1.60±0.02	94±2	80	12.5	150	100	7	±25	±25	2	$1x10^{13}$	Flame Retardant & Low Smoke Suitable for Sheath Integrity Test
SPECIAL COMPOUNDS												
KLJ AYI3-LF M	1.37±0.02	96±2	130	20	200	125	10	±25	±25	-	$5x10^{13}$	Wire Harnessing/Automobile Cable Class T2 ISO 6722 RoHS Compliants upto 1.0 sqmm Cable Size
KLJ AYI 92 LF	1.36±0.02	91±2	130	15	200	125	10	±25	±25	-	$1x10^{13}$	Wire Harnessing/Automobile Cable Class T2 ISO 6722 RoHS Compliants above 1.0 sqmm Cable Sizes
KLJ 125 M	1.37±0.02	96±2	400	20	200	150	10	-	-	-	$1x10^{14}$	Wire Harnessing/Automobile Cable Class T3 ISO 6722 upto 1.0 sqmm Cable Size
KLJ 125 S	1.30±0.02	88±2	400	15	200	150	10	-	-	-	$1x10^{14}$	Wire Harnessing/Automobile Cable Class T3 ISO 6722 above 1 .0 sqmm Cable Sizes
KLJ 80 OR PF	1.32±0.02	80±2	80	12	150	80	7	±20	±20	2	-	PVC/Nitrile Flexible Sheathing
KLJ 85 TPT	1.23±0.02	88±2	50	12	150	80	7	±20	±20	2	-	PVC Transparent Sheathing Compound
KLJ 85 TPT N	1.23±0.02	90±2	50	12	150	80	7	±20	±20	2	-	PVC/TPU/NITRILE Transparent Sheathing Compound
KLJ 08I®	1.35±0.02	93±2	240	15	150	135	10	±20	±20	1.5	$1x10^{14}$	VDE/DIN Insulation Compound as per IEC 60227/ meets the UL requirements as per Style No.1028/1015/11122/1007 & 1569 Of UL 758. Also meets TI3^ requirements as per BS 7655/BS EN 50363-3
KLJ 08S M®	1.35±0.02	88±2	240	12.5	150	135	10	±20	±20	1.5	-	VDE/DIN Sheathing Compound as per IEC 60227
KLJ LT 55	1.27±0.02	73±2	80	12.5	125	80	7	±20	±20	2	-	(-55°C) Flexible Sheathing Application
KLJ LT 30	1.30±0.02	92±2	80	10	150	80	7	±20	±20	2	$1x10^{13}$	(-30°C) Application Type TI 5 BS 7655
KLJ LT 40	1.32±0.02	90±2	80	12.5	125	80	7	±20	±20	2	N.A	(-40°C) Sheathing Application
KLJ 93 ST2 BK LF	1.43±0.02	92±2	80	12.5	150	100	7	± 25	± 25	2	N.A	(-40°C) Application Type TI 4 BS 7655
KLJ 93 TYPE A LF	1.43±0.02	92±2	80	12.5	150	100	7	± 25	± 25	2	$1x10^{13}$	(-40°C) Application Type TI 4 BS 7655
KLJ W 21	1.31±0.02	60±2D	100	12.5	150	135	7	± 25	± 35	-	$1x10^{14}$	Winding Wire Insulation Compound
KLJ 143	1.38±0.02	94±2	100	15	200	70	7	±20	±20	2	$1x10^{14}$	Meets the requirement of Class B of IS 15652 (2006)
KLJ 70B	1.70±0.02	83±2	40	6	200	-	-	-	-	-	$1x10^{12}$	Type 6 as per BS 7655

Remark: Anti-Rodent/Anti-Termite grades are also available

* The FR Compounds have the following properties: LOI 29% (Min.)

** The FRLS Compounds have the following properties: Smoke Density Rating 60% (Max.), Halogen Acid Gas Emission < 20%, Temp. Index 250°C (Min.), LOI 29% (Min.)

^ Loss of Mass 115°C for 14 Days

^ Loss of Mass 115°C for 10 Days®

Disclaimer: The data given above are for the guidelines purpose only. Above Compound is suitable to run on different machines; however some adjustments may be required on individual machine. All properties are tested as per ASTM/IS/IEC standards. Any data may change without prior information. The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warranty what so ever, after processing.

COLOUR MASTERBATCHES FOR CABLE COMPOUNDS

KLJ offers wide range of colour Masterbatches in PVC, PE and EVA base as well as Universal range of colour Masterbatch. The range of colour Masterbatch meets various National/ International requirements of Cables Industry.

KLJ VMB/VINYL MASTERBATCH	KLJ UMB/UNIVERSAL MASTERBATCH	KLJ PMB/PE MASTERBATCH
FOR PVC COMPOUNDS	FOR SIOPLAS & PVC COMPOUNDS	FOR POLYOLEFINIC COMPOUNDS

KLJ PMB/PE MASTERBATCH

Colour Mastebatch with Filler				Colour Masterbatch without Filler			
Properties	RAL Shade	Density	Remarks	Properties	RAL SHADE	Density	Remarks
Unit		g/cm3		Unit		g/cm3	
Test Method		ASTM D 792		Test Method		ASTM D 792	
Grade				Grade			
KLJ PE MB UV RED	3000	1.5	PE Base Colour Masterbatch with Filler for Sioplas, LDPE, MDPE, HDPE and ZHFR	KLJ UMB RED (UF)	3000	0.9	PE Base Colour Masterbatch Without Filler for Sioplas, LDPE, MDPE, HDPE and ZHFR
KLJ PE MB UV BLUE	5015	1.5	PE Base Colour Masterbatch with Filler for Sioplas, LDPE, MDPE HDPE and ZHFR	KLJ UMB BLUE (UF)	5015	0.9	PE Base Colour Masterbatch Without Filler for Sioplas, LDPE, MDPE, HDPE and ZHFR
KLJ PE MB YELLOW	1021	1.5	PE Base Colour Masterbatch with Filler for Sioplas, LDPE, MDPE, HDPE and ZHFR	KLJ UMB YELLOW (UF)	1021	0.9	PE Base Colour Masterbatch Without Filler for Sioplas, LDPE, MDPE, HDPE and ZHFR
KLJ PE UV BLACK	9005	1.5	PE Base Colour Masterbatch with Filler for Sioplas, LDPE, MDPE, HDPE and ZHFR	KLJ UMB BLACK (UF)	9005	0.9	PE Base Colour Masterbatch Without Filler for Sioplas, LDPE, MDPE, HDPE and ZHFR

KLJ PVC COLOUR MASTERBATCH

Colour Masterbatch RoHS/REACH Compliant				Colour Masterbatch RoHS Compliant			Colour Masterbatch Regular Range		
Properties	RAL Shade	Hardness	Remarks	Properties	Hardness	Remarks	Properties	Hardness	Remarks
Unit				Unit			Unit		
Test Method		Shore A		Test Method	Shore A		Test Method	Shore A	
Grade		ASTM D 2240		Grade	ASTM D 2240		Grade	ASTM D 2240	
MB RAL RED 3000	3000	85-90	PVC based Colour Masterbatch for Wire & Cables, design to meet the RoHS/REACH compliant requirements, pigment used in the MB are with good light fastness which gives good colour stability in end product for long duration.	CMB RED	85-88	PVC based Colour Masterbatch for Wire & Cables, design to meet the RoHS compliant requirement.	CMB LB RED	85-88	PVC based Colour Masterbatch for Wire & Cables, Lead based
MB RAL GREEN 6016	6016	85-90		CMB GREEN	85-88		CMB LB GREEN	85-88	
MB RAL BLUE 5015	5015	85-90		CMB BLUE	85-88		CMB LB BLUE	85-88	
MB RAL YELLOW 1003	1003	85-90		CMB YELLOW	85-88		CMB LB YELLOW	85-88	

FUNCTIONAL MASTERBATCHES

PVC	
MB UV	PVC based UV Masterbatch
MB NR	NBR/PVC Masterbatch with 70% Rubber
MB TPU	PVC/TPU Masterbatch
MB AR AT	Anti-Rodent Anti-Termite Masterbatch
MB AF	PVC based Antifungal Masterbatch

PE/EVA	
FR MB	PE FR Masterbatch
PAMB	PE & EVA based process aid Masterbatch
MB AR AT	PE based Anti-Rodent/Anti-Termite Masterbatch
MB UV	PE based UV Masterbatch

*The above details represent only few of our grades, please contact us with your exact requirement to choose from our exhaustive range or for customisation.

Pioneer in Polymer Compounding with an installed capacity of over 200,000 tps & expanding

High capacity Automated Plants to ensure consistent quality at strategic locations i.e. Silvassa, Agra & Kutch (upcoming)

PRODUCTS RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi Conductive | EPR | ZHFR | PO | 3LP | PP | EP | TPR | TPE | EVA | Colour/Performance Masterbatch

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KLJ XL (SIOPLAS XLPE COMPOUNDS)

KLJ XL (SIOPLAS XLPE COMPOUNDS)

KLJ-XL range is based on Silane grafted Polyethylene, to be used with catalyst Masterbatch. These grades are designed for ambient as well as moisture/forced curing.

Application :- These grades are designed for insulation of Low Voltage (up to 6 KV) and also for Medium Voltage (up to 33 KV) Power Cable.

S.N.	Properties	Tensile Strength	Elongation at Break	After Ageing 135°C for 7 Days		After Ageing 150°C for 10 Days		Hot Set at 200°C for 15 Minutes at 20 N/cm2 for 1 Hours		Shrinkage at 130°C at 85 °C for14 Days	Water Absorption at 27°C	Volume Resistivity	Moisture Content -40°C	Cold Bend Test at -40°C	Cold Impact Test at Test at -40°C	Cold Elongation (50Hz) at 23°C	Dielectric Constant at 23°C	Dissipation Factor (50Hz) at 23°C	Dielectric Strength (50Hz)	Carbon Content Index	Limiting Oxygen	Flammability Test	Conform to Standard	Applications
				Tensile Strength	Elongation at Break	Tensile Strength	Elongation at Break	Elongation under Load	Permanent Deformation															
	Unit	MPa	%	MPa	%	MPa	%	%	%	%	mg/cm2	ohm-cm	ppm			%			KV/mm		%			
	Test Method	IS 10810 (Part 7)/ IEC 60502	IS 10810 (Part 7)/ IEC 60502	IS 10810 (Part 11)/ IEC 60502	IS 10810 (Part 11)/ IEC 60502	IS 10810 (Part 30)/ IEC 60502	IS 7098	IEC 60811-1-3	IS 3396	ASTM E 203	IS 10810	IS 10810	IS 10810	ASTM D 150 (Part 20)	ASTM D 150 (Part 21)	ASTM D 149 (Part 11)	ASTM D 1603	ASTM D 2863	UL 94					
	Grade																							
1	KLJ XL 01 AC	≥16	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 10810, BS 5467, BS 5468, BS 6724, BS 7655, IEC 60502	Low Voltage Power Cables (LT application) Ambient Curing
2	KLJ XL 01 HS	≥16	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 7098 Part 1, IS 10810, BS 5467, BS 5468, BS 6724, BS 7655, IEC 60502, DIN VDE–0250 Part-214 Type-2XI1	High speed, Low Voltage Power Cables (LT Application)
3	KLJ XL 01 HS 2	≥16	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 7098 Part 1, IS 10810, BS 5467, BS 5468, BS 6724, BS 7655, IEC 60502, DIN VDE –0250 Part-214 Type-2XI1	High Speed, Low Voltage Power Cables (LT Application), Ambient Curing
4	KLJ XL 01 PR	≥16	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 7098 Part 1, IS 10810, BS 5467, BS 5468, BS 6724, BS 7655, IEC 60502, DIN VDE–0250 Part-214 Type-2XI1	High speed, Low Voltage Power Cables (LT Application)
5	KLJ XL 01 HS ABC	≥14.5	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	2.5±0.5	N/A	N/A	IS 10810, BS 5467, BS 5468, BS 6724, BS 7655, IEC 60502	Low Voltage Aerial Bunched Cable
6	KLJ XL 01 HS2 FR	≥14	≥300	±25	±25	N/A	N/A	≤100	<5	≤4	≤1	$\geq 1x10^{15}$	≤100	No crack	No crack	≥300	≤ 2.3	≤0.004	25	N/A	≥24	V0	Fire Survival Test conducted on a resulting insulated cable as per IEC 332 Part 3 Category B	Low Voltage Power Cables with FR (LT Applications)
7	KLJ XL 01 AC H	≥16	≥450	±25	±25	±30	±30	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 10810, BS 5467, 5468, 6724, 7655, IEC 60502	1250 rated Silane Grafted XLPE Compound for Low Voltage Power Cables (Ageing 150°C for Days) for Solar Cables
8	KLJ XL 11	≥ 16	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 7098 Part 2/ IS 10810 BS 5467, 5468, 6724, 7655 IEC 60502-2	Medium Voltage Power Cables (HT) Applications up to 11 KV
9	KLJ XL 33	≥16	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 7098 Part 2/ IS 10810 BS 5467, 5468, 6724, 7655 IEC 60502-2	Medium Voltage Power Cables (HT) Applications up to 33 KV
10	KLJ XL 33 WTR	≥16	≥450	±25	±25	N/A	N/A	≤100	±10	≤4	≤1	$\geq 1x10^{14}$	≤100	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	N/A	N/A	IS 7098 Part 2/ IS 10810 BS 5467, 5468, 6724, 7655 IEC 60502-2	KLJ XL 33 WTR is a Water Tree Retardant, Crosslinkable Compound designed for HT Applications

KLJ PX (PEROXIDE BASED XLPE COMPOUNDS)

KLJ PX (PEROXIDE BASED XLPE COMPOUNDS)

Description :- KLJ PX 11 & 33 are based on Low Density Poly Ethylene for continuous vulcanization process to produce power cable up to 11/33 KV, to meet the following specification, when processed using sound extrusion and testing processes.

	Properties	Density	Tensile Strength	Elongation at Break	After Ageing 135°C for 7 Days		Hot set at 200°C for 15 Minutes at 20 N/cm²		Shrinkage at 130°C for	Water Absorption 1 Hours	Volume Resistivity at 85 °C for 14 Days	Moisture Content at 27°C	Cold Bend Test at -40°C	Cold Impact Test at -40°C	Cold Elongation at -40°C Test	Dielectric Constant (50Hz) at 23°C	Dissipation Factor (50Hz) at 23°C	Dielectric Strength (50Hz) at 23°C	Impurity (Diameter)			Conform to Standard	Applications
					Tensile Strength	Elongation at Break	Elongation under Load (Max.)	Permanent Deformation (Max.)											101 - 200	201 - 500	501 - 1000		
	Unit	gm/cm3	MPa	%	MPa	%	%	%	%	mg/cm2	ohm-cm (min)	ppm			%			KV/mm	mm	mm	mm		
	Test Method	ASTM D 792	IS 10810 (Part 7)/ IEC 60502	IS 10810 (Part 7)/ IEC 60502	IS 10810 (Part 11)/IEC 60502		IS 10810 (Part 30)/IEC 60502		IS 7098	IS 7098	IS 3396	ASTM E 203	IS 10810 (Part 20)	IS 10810 (Part 21)	IS 10810 (Part 11)	IEC 60250	IEC 60250	IEC 60243	KLJ TM				
	Grade																						
1	KLJ PX 11	0.925±0.005	≥18	≥450	<10	<10	≤100	≤5	≤4	≤1	$\geq 1x10^{16}$	≤100	No crack	No crack	≥300	≤2.3	≤0.0003	≥30				IEC 60502/60840 HD 620-S1	Compound developed specially for Continuous Vulcanization process to produce Medium and High Voltage Power Cables (up to 11 KV)
2	KLJ PX 33	0.925±0.005	≥18	≥450	<10	<10	≤60	≤5	≤4	≤1	$\geq 1x10^{16}$	≤100	No crack	No crack	≥300	≤2.3	≤0.0003	≥30	≤5	≤5	0	IEC 60502/60840 HD 620-S1	Compound developed specially for Continuous Vulcanization process to produce Medium and High Voltage Power Cables (up to 33 KV)
3	KLJ PX 33 WTR	0.925±0.005	≥18	≥450	<10	<10	≤55	≤3	≤4	≤1	$\geq 1x10^{16}$	≤100	No crack	No crack	≥300	≤2.3	≤0.0003	≥30	≤5	≤5	0	IEC 60502/60840 HD 620-S1	KLJ WTR PX-33 is a Water Tree Retardant, Crosslinkable, Low Density Polyethylene Compound designed for Medium Voltage Power Cable Insulation

KLJ SC (SEMI-CONDUCTING COMPOUNDS)

KLJ SC (SEMI-CONDUCTING COMPOUNDS)

	Properties	Melt Flow Index 190°C/10 kg	Density at 27°C	Tensile Strength	Elongation at Break	After Ageing TS at 121°C for 7 Days	After Ageing TS at 135°C for 7 Days	Hardness	DC Volume Resistivity		Hot Set at 200°C for 15 Minutes at 20 N/cm²		Stripping Force	Conform to Standard	Applications
				(Min.)	(Min.)				23°C	90°C	Elongation under Load (Max.)	Permanent Deformation (Max.)			
	Unit	g/10min	g/cm3	MPa	%	%	%		SH-D	ohm-cm	%	%	N/cm		
	Test Method	ASTM D 1238	ASTM D 1505	ASTM D 638	ASTM D 638	ASTM D 638	ASTM D 638	ASTM D 2240	ASTM D 991		IS 10810 (Part 30)/IEC 60502		KLJ TM		
	Grade														
1	KLJ SEM 500	8-10	1.11±0.03	≥14	≥200	<20	N/A	54±2	<50	<100	N/A	N/A	N/A	NEMA-WC-7, BS 6622, IEC 60502, IEC 60840	Thermoplastic Bonded Semi-Conductive material specially developed for Conductor and Insulation Shielding for Sioplas base Medium Voltage Power Cables
2	KLJ SEM 800	7-9	1.18±0.03	≥10	≥150	<20	N/A	52±2	<100	<1000	N/A	N/A	<40	NEMA-WC-7, BS 6622, IEC 60502, IEC 60841	Thermoplastic Strippable Semi Conductive material specially developed for Conductor and Insulation shielding for Sioplas base medium voltage power cables.
3	KLJ SC PX 535	N/A	1.14±0.03	≥13	≥150	N/A	<15	54±2	<100	<1000	≤100	≤10	N/A	IEC 60502, NEMA-WC-7, AEIC CS-5/AEIC CS5, IS 7098-II	Crosslinkable Bonded Semi Conductive Compound for CCV
4	KLJ SC PX 535R	N/A	1.14±0.03	≥18	≥200	N/A	<10	52±2	<100	<1000	≤100	≤10	N/A	IEC 60502, NEMA-WC-7, AEIC , CS-5/AEIC-CS5, IS 7098-II	Crosslinkable Bonded Semi Conductive Compound for CCV
5	KLJ SC PX 835	N/A	1.20±0.03	≥15	≥250	N/A	<10	50±2	<100	<1000	≤100	≤10	<40	IEC 60502, NEMA-WC-7, AEIC , CS-5/AEIC-CS5, IS 7098-II	Crosslinkable Bonded Semi Conductive Compound for CCV
6	KLJ SC PX 835R	N/A	1.18±0.03	≥15	≥250	N/A	<10	45±2	<100	<1000	≤100	≤10	<40	IEC 60502, NEMA-WC-7, AEIC , CS-5/AEIC-CS5, IS 7098-II	Crosslinkable Bonded Semi Conductive Compound for CCV

Pioneer in Polymer Compounding with an installed capacity of over 200,000 tps & expanding

High capacity Automated Plants to ensure consistent quality at strategic locations i.e. Silvassa, Agra & Kutch (upcoming)

PRODUCTS RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi Conductive | EPR | ZHFR | PO | 3LP | PP | EP | TPR | TPE | EVA | Colour/Performance Masterbatch

KLJ GROUP
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KLJ ZHFR (ZHFR COMPOUNDS)

KLJ ZHFR (ZHFR COMPOUNDS)

Thermoplastic Zero Halogen Flame Retardant Compound for Wire & Cable application

KLJ ZHFR range is Polyolefin based Thermoplastic, RoHS compliant, containing a Flame Retardant System, with self extinguishable properties for general purpose Insulation and Sheathing/Jacketing application. It does not emit halogenic acid and produce very low gases and low smoke under fire condition.

Properties	Density	Hardness	Tensile Strength	Elongation at Break	After Ageing in Air at 100°C for 7 days		Oxygen Index	Smoke Density Rating	Pressure Test at 80°C Indentation	Acid Gas Emission Test (% HCL)	Tem. Index	Volume Resistivity	Bending Test at Low Temp. (-15°C)	Impact Test at Low Temp. (-15°C)	pH Value	Conductivity	Fluorine Test	Tear Strength	Hot Set Test at 200°C for 15 Minutes 20N/cm2		Conform to Standard	Applications
					Tensile Strength	Elongation at Break													Elongation under Load	Permanent Deformation		
Unit	g/cm3	SH-D	MPa	%	%	%	%	%	%	%	°C	ohm-cm				µS/mm	%	N/mm	%	%		
Test Method	ASTM D 792	ASTM D 2240	IEC 811-1-1		IEC 811-1-2		ASTM D 2863	ASTM D 2843	IEC 811-3-1	IEC 60754 (Part 1)	ASTM D 2863	ASTM D 257	BS EN 60811-504:2012	BS EN 60811-506:2012	IEC 60754-2: 2011	IEC 60754-2:2011	BS EN 50525-1:2011 Annex C	BS 6469-99.1	IEC 811-2-1	IEC 811-2-1		
Grade																						
KL ZHFR 323	1.50±0.02	53±2	≥10	≥200	±25	±25	31±1	≤20	≤50	<0.5	>300	$\geq 1x10^{13}$	No crack	No crack	≥4.3	≤10	<0.1	≥5	N/A	N/A	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	General Purpose Insulation and Sheathing/Jacketing Application
KLJ ZHFR 343 H4	1.50±0.02	57±2	≥10	≥150	±30	±30	34±1	≤20	≤50	<0.5	>300	$\geq 1x10^{14}$	No crack	No crack	≥4.3	≤10	<0.1	≥5	N/A	N/A	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	General Purpose, High Speed Insulation and Sheathing/Jacketing Application with MediumCrackResistant Grade
KLJ ZHFR 343 H5	1.48±0.02	52±2	≥10	≥150	±20	±20	34±1	≤20	≤50	<0.5	>300	$\geq 1x10^{14}$	No crack	No crack	≥4.3	≤10	<0.1	≥9	N/A	N/A	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	Very Robust, High Crack Resistant for Insulation and Sheathing/Jacketing Application
KLJ ZHFR 403	1.50±0.02	58±2	≥10	≥150	±30	±30	38±1	≤20	≤50	<0.5	>300	$\geq 1x10^{14}$	No crack	No crack	≥4.3	≤10	<0.1	≥5	N/A	N/A	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	Highly Flame Retardant, High Speed for Insulation and Sheathing/Jacketing Application. (CAT5/CAT6/Housewire/Control Cable/OFC)
KLJ ZHFR 403 H5	1.46±0.02	50±2	≥13	≥180	<15	<20	38±1	≤20	<35	<0.3	>320	$\geq 5x10^{14}$	No crack	No crack	≥5.0	≤2.5	<0.1	≥10	N/A	N/A	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	Very Robust, High Crack Resistant for Insulation and Sheathing/Jacketing Application
KLJ ZHFR 403 F UV	1.46±0.02	50±2	≥13	≥180	<15	<20	38±1	≤20	<35	<0.3	>320	$\geq 5x10^{14}$	No crack	No crack	≥5.0	≤2.5	<0.1	≥10	N/A	N/A	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	Very Robust, High Crack Resistant for Insulation and Sheathing/Jacketing Application with UV Stabilise
KLJ ZHFR 411 UV	1.51±0.02	56±2	≥10	≥150	±25	±25	41±1	≤20	≤40	<0.5	>330	$\geq 1x10^{14}$	No crack	No crack	≥4.3	≤8	<0.1	≥7	N/A	N/A	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	High Flame Retardant, Used for the Production of Energy, Signal and Control Cables
KLJ ZHFR 500	1.78±0.02	75±3	≥5	≥70	-	-	50±1	-	-	-	>300	$\geq 1x10^{12}$	-	-	≥4.3	≤10	<0.1	-	N/A	N/A	VDE 0270 Part 22 & 24, Type HM2	Filling/Bedding Compound
KLJ ZHFR 311 CL	1.50±0.03	48±2	≥13	≥150	±25	±25	33±1	≤20	≤50	<0.5	≥300	$\geq 5x10^{14}$	No crack	No crack	≥4.3	<2.5	<0.1	≥5	≤70	±5	BS EN 50363-0, BS EN 50618 Type M1 & TI7, VDE 0270 Part 24 Type HM2 & HM4, IEC 60502 ST8, IEC 332-1/2/3, BS 7655 LTS 1, LTS2, LTS3 & LTS4	General Purpose XL-HFFR for Insulation and Sheathing/Jacketing Application
KLJ ZHFR 322 CL	1.12±0.02	40±2	≥15	≥350	±30	±30	≥30	≤20	≤50	<0.5	≥300	$\geq 1x10^{14}$	No crack	No crack	≥4.3	<2.5	<0.1	≥5	≤50	≤5	BS 7655 LTS 1,3 & 4, VDE 0207 Part 24 HM2 & HM4, IEC 332-1/IEC 332-2/IEC 332-3, CAT C, VDE 0250 Part 215 HM5	General Purpose Soft XL-HFFR for Insulation and Sheathing/Jacketing Application
KLJ XL ZHFR 333	1.42±0.03	46±2	≥13	≥220	±30	±30	≥33	≤1.5	≤50	<0.5	≥300	$\geq 1x10^{15}$	No crack	No crack	≥4.3	≤2.5	<0.1	≥5	≤50	≤5	VDE 0266 Type HX1 & HXM1, EN 50363-0 Type G9-G10 & M2, VDE 0207, Part 23 Type HJ1, EN 50363-5 Type EI5, CEI 20-91 Type G21-M21, EN 50618-TUV2pfg1169-082007	For Solar Cable

KLJ PO (PE COMPOUNDS)

KLJ PO (PE COMPOUNDS)

Description :- KLJ PE based Compounds are designed for Cable Jacketing I Specification :- KLJ PE Compound meets the following specification

Properties	Melt Flow Index 190°C/ 2.16 kg Load	Density	Hardness Strength	Tensile at Break	Elongation at 27°C	Volume Resistivity at 80°C ± 3 for 5 Hours	Shrinkage Constant (50Hz) at 23°C	Dielectric Factor (50Hz) at 23°C	Dissipation Strength (50Hz) at 23°C	Dielectric Induction Time	Oxidation	ESCR	CBC	Conform to Standard	Applications
Unit	g/10min	g/cm3SH-D	MPa	%	ohm-cm	%			KV/mm	Minutes	Hours	%			
Test Method	ASTM D 1238	ASTM D 792	ASTM D 2240	IS 10810 (Part 7)	IS 3396	IS 7098	IEC 60250	IEC 60250	IEC 60243						
Grade															
KLJ MDPE	≤0.6	0.940±0.03	55±2	≥20	≥600	$\geq 1x10^{16}$	≤3.0	≤2.4	≤0.0004	≥25	≥100	≥1000	N/A	ST 7 of IEC 60502/60840	Sheathing/Jacketing Compound
KLJ MDPE BK 9406	≤0.8	0.945±0.03	58±2	≥21	≥800	$\geq 1x10^{16}$	≤3.0	≤2.4	≤0.0004	≥25	≥60	≥2000	2.5±0.5	ST 7 of IEC 60502/60840	Sheathing/Jacketing Compound
KLJ HDPE 9407	≤1.0	0.944±0.03	58±2	>25	>600	$\geq 1x10^{16}$	≤3.0	≤2.4	≤0.0004	≥25	>100	≥1000	N/A	ST 7 of IEC 60502/60840	Sheathing/Jacketing Compound for Communication and Energy Cables
KLJ HDPE BK 9606 M	≤0.8	0.955±0.03	55±2	≥20	≥600	$\geq 1x10^{16}$	≤3.5	≤2.75	≤0.0004	≥25	≥40	≥48	2.5±0.5	ST 7 of IEC 60502/60840	Jacketing/Sheathing Material for Optical Fiber Cables
KLJ HDPE BK 9606 AR AT M	≤0.8	0.955±0.03	55±2	≥20	≥600	$\geq 1x10^{16}$	≤3.5	≤2.75	≤0.0004	≥25	≥40	≥48	2.5±0.5	ST 7 of IEC 60502/60840	Jacketing/Sheathing Material for Optical Fiber Cables
KLJ HDPE BK 9505	≤0.7	0.958±0.03	60±2	≥32	≥600	$\geq 1x10^{16}$	≤3	≤2.75	≤0.0004	≥25	≥70	≥5000	2.5±0.5	ST 7 of IEC 60502/60840	Sheathing/Jacketing Compound

Remarks :- Can be offered black or any other colour as required and also with different MFI and other properties.

KLJ EPR/XLPO (SIOPLAS CROSS LINKABLE POLYOLIFIN COMPOUNDS)

KLJ EPR/XLPO (SIOPLAS CROSS LINKABLE POLYOLIFIN COMPOUNDS)

Description :- KLJ-EPR/XLPo is range of Silane Crosslinkable Elastomeric Compounds, curable when exposed to moist conditions. The Compound is processed in the same way as a non-curable elastomer having good extrusion properties at high output rates. The graft component is to be mixed with a crosslinking catalyst Masterbatch in the ratio 95:5

Properties	Density	Hardness	Tensile Strength	Elongation at Break	After Ageing 135°C for 7 Days		Hot Set at 250°C for 15 Minutes at 20 N/cm²		Water Absorption at 85°C for 14 Days	Volume Resistivity at 27°C	Cold Bend Test at -50°C	Cold Impact Test at -50°C	Cold Elongation Test at -50°C	Dielectric Constant (50Hz) at 23°C	Dissipation Factor (50Hz) at 23°C	Dielectric Strength (50Hz) at 23°C	Flammability Test	Conform to Standard	Applications
					Tensile Strength	Elongation at Break	Elongation under Load (Max.)	Permanent Deformation (Max.)											
Unit	gm/cc	SH-A	MPa	%	Mpa	%	%	%	mg/cm2	ohm-cm			%			KV/mm			
Test Method	ASTM D 792	ASTM D 2240	IS 10810 (Part 7)/ IEC 60502	IS 10810 (Part 7)/ IEC 60502	IS 10810 (Part 11)/ IEC 60502		IS 10810 (Part 30)/ IEC 60502		IS 7098	IS 3396	IS 10810 (Part 20)	IS 10810 (Part 21)	IS 10810 (Part 11)	IEC 60250	IEC 60250	IEC 60243	UL 94		
Grade																			
KLJ EPR 65	0.89±0.02	64±3	≥10	≥400	±30	±30	≤175	±15	≤5	$\geq 1x10^{13}$	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	IEC 60502-2--EPR , IS 6380 IE-2, IS 6380 IE-1	Good Flexibility, Low Toxicity, Low Voltage Insulation
KLJ EPR 75	0.91±0.02	80±3	≥10	≥400	±30	±30	≤175	±15	≤5	$\geq 1x10^{13}$	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	IEC 60502-2--EPR , IS 6380 IE-2, IS 6380 IE-1	Good Flexibility, Low Toxicity, Low Voltage Insulation
KLJ EPR 80	0.92±0.02	82±3	≥11	≥400	±30	±30	≤175	±15	≤5	$\geq 1x10^{13}$	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	IEC 60502-2--EPR , IS 6380 IE-2, IS 6380 IE-1	Good Flexibility, Low Toxicity, Low Voltage Insulation
KLJ EPR 95	0.94±0.02	90±3	≥12	≥400	±30	±30	≤175	±15	≤5	$\geq 1x10^{13}$	No crack	No crack	≥300	≤2.2	≤0.004	≥25	N/A	IEC 60502-2--EPR , IS 6380 IE-2, IS 6380 IE-1	Good Flexibility, Low Toxicity, Low Voltage Insulation
KLJ EPR FR	1.02±0.02	92±3	≥10	≥400	±30	±30	≤175	±15	≤5	$\geq 1x10^{13}$	No crack	No crack	≥300	≤2.2	≤0.004	≥25	V0	Fire Survival Test conducted on a resulting insulated cable as per IEC 332 Part 3 Category B	Good Flexibility, Low Toxicity, Low Voltage Insulation

Remark :- Suitability of the product for particular application must be verified before use.

The above details represent only few of our grades, please contact us with your exact requirement to choose from our exhaustive range or for customization, including REACH/ RoHS compliant grades and Antir-Rodent/Anti-Termite grades.

The properties as given above are as per the applicable standard, the Compounds are designed to exceed the properties/specifications & the typical value will be on the better side. Please contact for the exact value.

Pioneer in Polymer Compounding with an installed capacity of over 200,000 tps & expanding

High capacity Automated Plants to ensure consistent quality at strategic locations i.e. Silvassa, Agra & Kutch (upcoming)

PRODUCTS RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi Conductive | EPR | ZHFR | PO | 3LP | PP | EP | TPR | TPE | EVA | Colour/Performance Masterbatch

KLJ GROUP
SINCE 1967

Product Range

VINYL | PVC Compound

Footwear, Wire & Cable, Medical, Automotive, Sports, Profile, Rigid, etc. Dedicated lines for Phthalate Free grades & Clean Room for Medical & Food grade

XL | Sioplas PE Insulation Compound

Silane Grafted XLPE for MV (35 KV), LV, Aerial Bunched, FR, Forced/Ambient curable

PX | Peroxide PE Insulation Compound

Peroxide XLPE for CCV Lines (up to 72 KV)

SEM | Semi Conductive Cable Compound

Black Semi Conductive Compounds for Shielding of Conductor & Insulation. Bonded & Strippable

EPR/XLPO | EPR/XLPO Compound

Cross Linkable EPR Cable Compound (up to 35 KV)

ZHFR | Zero Halogen Flame Retardant Compound

Sheathing and Insulation for Wires & Cables for a wide range of applications including cross-linkable grades

PO | Polyolefin Compound

HDPE/MDPE/LDPE/LLDPE Compounds for Insulation & Sheathing

3LP | HDPE Compound

Polyolefin based Compound for 3 layered Steel Pipe

PLENE | Polypropylene Compound*

Automotive, Appliance, Electronic & Electrical, etc.

EP | Engineering Polymer Compound*

ABS, ASA, SAN, PA6, PA66, PBT, PET, PPO, PPE, PC, POM & varieties of blends and alloys for Automotive, Appliance, Electronic & Electrical, etc.

FLEX | TPR & TPE Compound

Footwear, Medical, Profile, Pen Grip, Tooth Brush Grip, Pipe Gasket, Polymer Modifier, etc.

VA | EVA Compound

Footwear

APPLICATIONS

- Wires & Cable
- Footwear
- Medical Equipment/ Medical Device
- Automotive
- Railways
- Defence
- Appliance
- Electrical & Electronic
- Flexible Profile
- Engineering
- Flexible & Rigid Moulding
- Packaging
- Hygiene
- Sports
- Irrigation
- Flooring/Sheeting
- Rigid Profile
- Pipe Coating
- Hose Pipe
- Stationery
- Heating Pipe
- Gasket
- Mining

MASTERBATCHES

VMB | PVC Masterbatch

PMB | PE Masterbatch

UMB | Universal Masterbatch

Colour/Performance Masterbatches (e.g., UV, Anti-Rodent, Anti-Termite, FR, etc.)
REACH/RoHS/Phthalate Free grades also available

* IATF 16949:2016, ISO/IEC 17025:2017, ISO 9001:2015, ISO 14001:2015, ISO 13485:2016 Certified

Our 55,000 sqft. State-of-the-Art R&D centre enables KLJ Group to be at the forefront of the latest Development & Product Innovation.

Clear focus on R&D keeps the Group ahead of the competition and provides Customized Solutions to their Customers.

APPLICATION DEVELOPMENT
* Pilot Plants of various capacities
* FTIR * UV * GCs
* Autoclaves * Rheometer

APPLICATION PLANTS
* Wire * Sole * Foam Sole
* Film * Tubing
* Injection Moulding
* Flammability
* High Voltage Test