



KLJ GROUP

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#22-SEP-W&C



KLJ GROUP

XLPE-SIOPLAS/PEROXIDE (UPTO 35 KV)
SEMICONDUCTIVE

PVC INSULATION

EPR

**WE
VALUE
YOUR
TRUST**

ZHFR

PVC-HR

XLPE-SIOPLAS FOR
AERIAL BUNCHED CABLE

PVC-FRLS

... sustaining life with material footprints

TOTAL SOLUTIONS FOR WIRE & CABLE INDUSTRY



World class plants strategically located in India & South East Asia with installed Capacity of over 350,000 tpa & expanding

One Stop Total Solutions provider for all the Plasticizer needs.

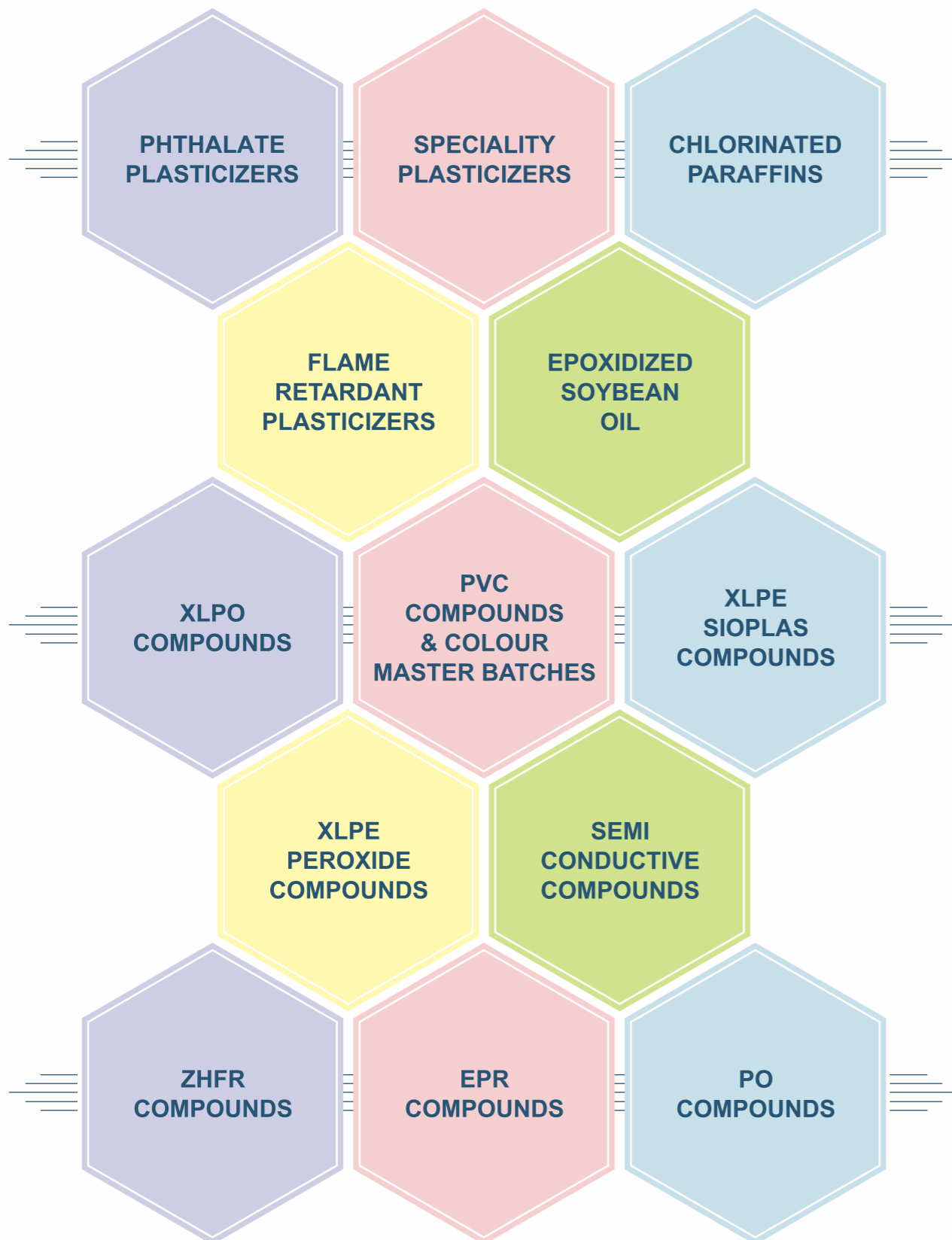
COMPLETE RANGE OF PLASTICIZERS

Phthalate | Adipate | Trimellitate | Citrate | Stearate | Benzoate | Sebacate | Maleate | Phosphate | ESBO | Chlorinated Paraffins



Trust Built on Performance

TOTAL SOLUTIONS FOR WIRE & CABLE INDUSTRY



PRIMARY PLASTICIZERS

PROPERTIES	GRADE	UNIT	TEST METHOD	F	F	KANATOL	KANATOL	I	KANATOL	KANATOL	I	F	KANATOL	F	KANATOL	F	I
				KANATOL 1212	KANATOL 1210	KANATOL 1001	KANATOL 1010	KANATOL 900	KANATOL 800	KANATOL 1056	KANATOL 8A	KANATOL TM 8-10 (L)	KANATOL 3800	KANATOL HT 9	KANATOL 40 S	KANATOL 8 S	KANATOL 8080 FG
Appearance			Visual	Water White Clear Liquid													
Colour (Max.)	Hazen	ASTM-D-1045-08	40	50	20	20	20	20	20	20	30	100	50	40	60	40	20
Specific Gravity at 27°C	N/A	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	0.923 ± 0.003	0.997 ± 0.003	0.989 ± 0.003	0.969 ± 0.003	0.857 ± 0.003	0.913 ± 0.003	0.983 ± 0.003	
Refractive Index at 27°C	N/A	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	1.447 ± 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	
Volatile Loss at 130°C for 3 Hrs. (Max.)	% By Mass	KLJ TM-P-11-92	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.20 (110°C for 2 Hrs.)	0.20	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	0.01	0.02	0.02	0.03	0.15 (AV)	0.02	0.02	0.01
Acidity after heat treatment at 180°C for 2 Hours (Max.)	% By Mass	ISI-9591-03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.02	0.05 (AV)	N.A.	0.03	0.03	
Heat Stability at 180°C for 2 Hrs.	Colour	ISI-9591-03	No Change	No Change	No Change	No Change	No Change	No Change	No Change	No Change	40 Hu.	No Change	65 Hu.	No Change	—	No Change	No Change
Heat Stability at 150°C for 2 Hrs.	Colour	ISI-9591-03	—	—	—	—	—	—	—	—	—	—	—	No Change	—	—	—
Ester Value	mg KOH/gm	ASTM-D-1045-08	223 ± 3	236 ± 3	251 ± 3	251 ± 3	267 ± 3	287 ± 3	287 ± 3	303 ± 3	277 ± 3	306 ± 3	271 ± 3	172 ± 5	263 ± 3	287 ± 3	
Ester Content (Min.)	% By Weight	ASTM-D-1045-08	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99	99	99.5	99	99.5	99.5	
Plasticizing Esters By GLC (Min.)	% By Area	KLJ TM-P-12-98	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99	99	99.5	99	99.5	99.5	
Viscosity at 20°C	cPs	KLJ TM-P-13-97	N.A.	118 - 124	105 - 111	117 - 123	76 - 82	79 - 85	71 - 77	12-18 (at 25°C)	107 - 113	271 - 277	—	8 - 14 (at 25°C)	58 - 64	60 - 66	
Boiling Point at Atmospheric Pressure	°C	IS-5298-05	N.A.	N.A.	400°C	251-254°C at 7 mmHg	250°C at 7 mbar	231°C at 7 mbar	N.A.	335°C	—	283°C at 13.2 mbar	—	343°C	248°C at 5 mmHg	400°C	
Residual/Free Alcohol (Max.)	% By Area	KLJ TM-P-12-98	0.20	0.20	0.10	0.10	0.10	0.10	0.10	—	—	—	—	—	—	—	
REACH Compliance	Y/N		Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	N.A.	Yes	Yes	Yes	Yes	

SECONDARY PLASTICIZERS

KANACHLOR CHLORINATED PARAFFIN

SPECIFICATION	GRADE	UNIT	TEST METHOD	42 WAX	42 WH	45 D/AD/ AI/AD1	F	52 D/AD/ AI/AD1	52 KD-5	62 D/AD AI/AD1	62 KD-5
				42 WAX	42 WH	45 D/AD/ AI/AD1	45 KL-10	52 D/AD/ AI/AD1	52 KD-5	62 D/AD AI/AD1	62 KD-5
Colour (Max.)	Hazen	ASTM D-1045-86	60	300	60	60	60	60	150	60	150
Specific Gravity at 27°C	N/A	ASTM D-1045	1.20 ± 0.02	1.18 ± 0.02	1.20 ± 0.02	1.21 ± 0.02	1.28 ± 0.02	1.28 ± 0.02	1.40 ± 0.03	1.40 ± 0.03	
Refractive Index at 27°C	N/A	ASTM D-1807	1.508 ± 0.002	1.503 ± 0.002	1.498 ± 0.002	1.505 ± 0.002	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	0.80	2.50	3.00	1.50	1.50	4.00	0.90	3.00	
Chlorine Content	% By Weight	ISI-1448-77	42 ± 2	42 ± 2	45 ± 2	45 ± 2	52 ± 2	52 ± 2	62 ± 2	62 ± 2	
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	
Free Chlorine (Max.)	% By Weight	KLJ/QCD/ WIN/25	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
Viscosity at 27°C	Poise	Brookfield ASTM D-445	50 - 100	15 - 50	2 - 5	15 - 30	12 - 35	10 - 25	400 - 1200	300-700	
Heat Stability at 180°C for 20 Minutes (Max.)	Colour	KLJ/QCD/ WIN/28	Yellow	Brown	Yellow	Yellow	Yellow	Brown	Yellow	Brown	
Thermal Stability at 175°C for 4 Hours (Max.)	% By Weight	KLJ/QCD/ WIN/27	0.10	0.40	0.10	0.10	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	

EPOXIDIZED SOYBEAN OIL

PROPERTIES	GRADE	UNIT	TEST METHOD	F	F
				KANAMOLL 620	KANAMOLL 650
Appearance			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 ± 0.003	0.996 ± 0.003	
Moisture Content (Max.)	% By Mass	ASTM E-203-08	0.10	0.10	
Acid Value (Max.)	% By Mass	ASTM D-1045-08	1.0 ± 0.2	0.8 ± 0.2	
Ester Value	mg KOH/gm	ASTM D-1045-08	1.0 ± 0.2	0.8 ± 0.2	
Oxirane Value (Min.)		HBR Method	6.2 ± 0.1	6.5 ± 0.1	
Iodine Value (Max.)		Wij's Method	5	3	
REACH Compliance	Y/N		Yes	Yes	

F New Launch

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.
Also available full range of Phosphate Esters (Flame Retardant Plasticizers)
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.



Pioneer in Polymer Compounding with an Installed Capacity of over 120,000 tpa & expanding

High Capacity Automated Plants to ensure Consistent Quality

PRODUCT RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi-Conductive | EPR | ZHFR | PO | PP | TPR | TPE | EVA | Colour/Performance Master Batch



Trust Built on Performance

KLJ-VINYL (PVC COMPOUNDS)

KLJ offers PVC Compound for wire & cable industries for both insulation & sheathing applications. The products conform to the following quality guidelines & standards. IS:5831:1984, BS:7655, IS:694, BIS, ASTM & RDSO.

UNIT	SPECIFIC GRAVITY	HARDNESS SHORE-A	THERMAL STABILITY AT 200°C (MIN.)	BEFORE AGEING		AFTER AGEING		VARIATION AFTER AGEING			VOLUME RESISTIVITY @ 27°C	APPLICATION
				TENSILE STRENGTH	ELONGATION AT BREAK	TEMP.	TIME	TENSILE STRENGTH	ELONGATION AT BREAK	LOSS OF MASS		
TEST METHOD	ASTM D 792	ASTM D 2240	IS 5831	N/mm2 (min)	% (min)	°C	DAYS	%	%	mg/cm2 (max)	ohm-cm (min)	
GRADE				IS 10810 (Part-7)		IS 10810 (Part-11)		IS 10810 (Part-11)			IS 3396	
KLJ-19	1.31 ± 0.02	92±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	Skin coating Compound/Type A(IS 5831)/T11 (BS7655)
KLJ-21 WCP B	1.42 ± 0.02	91±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	Insulation CPW free compound/Type A(IS 5831)/T11 (BS7655)
KLJ-21ND	1.45 ± 0.02	91±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	General Purpose Insulation upto 1.1KV, Type A(IS 5831)/T11 (BS7655)
KLJ-48	1.48 ± 0.02	94±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹⁴	General Purpose Insulation/Sheathing Type A/D(IS 5831) T11 (BS7655)
CG 18	1.50 ± 0.02	88±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	General Purpose Insulation/Sheathing Type A/D(IS 5831) T11 (BS7655)
KLJ-04 HM	1.54 ± 0.03	94±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	General Purpose Sheathing/Insulation Type A/ST2(IS 5831) T11 / TM1(BS7655)
CG-B138 SM	1.36± 0.02	96±2	100	12.5	135	100	7	± 25	± 25	2	1 X 10 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	1 X 10 ¹⁴	Type B Insulation for Railway Signaling/Telecommunication Wire
KLJ-09C	1.32 ± 0.02	94±2	100	12.5	125	135	7	± 25	± 35	—	1 X 10 ¹²	"Heat Resistant upto 105°C Operating Temperature"
KLJ-09M HR	1.36 ± 0.02	95±2	100	12.5	125	135	7	± 25	± 35	—	1 X 10 ¹²	"Heat Resistant upto 85°C Operating Temperature"
KLJ-40	1.43 ± 0.02	82±2	80	10	150	80	7	± 20	± 20	2	1 X 10 ¹²	"Soft Sheathing and Insulation Type D / ST1 (IS 5831) "
KLJ 30 CC	1.42 ± 0.02	80±2	80	12.5	150	80	7	± 20	± 20	2	N.A	General Purpose flexible Sheathing Type A(IS 5831) T11 (BS7655)
KLJ 34B	1.45 ± 0.02	84±2	50	12.5	150	80	7	± 20	± 20	2	N.A	Sheathing for Submersible cable
KLJ-21ND LF	1.45 ± 0.02	91±2	80	12.5	150	80	7	± 20	± 20	2	N.A	ST1 as per IS 5831
CG 17	1.53 ± 0.02	89±2	80	12.5	150	80	7	± 20	± 20	2	N.A	General Purpose Soft Sheathing Type ST1((IS 5831) /TM2(BS7655)
KLJ-05 H	1.52 ± 0.02	96±2	80	12.5	150	100	7	± 25	± 25	2	—	General Purpose Sheathing Type ST2((IS 5831) / TM1(BS7655)
KLJ-06 LF	1.55 ± 0.02	93±2	80	12.5	150	100	7	± 25	± 25	2	—	General Purpose Sheathing ROHS Type ST2((IS 5831)/TM1(BS7655)
KLJ-04 FRB2*	1.50 ± 0.02	91±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	FR Sheathing ST2 IS 5831/ Insulation TYPE A ROHS
KLJ-04 FRB1*	1.50 ± 0.02	91±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	FR Sheathing/ Insulation
KLJ-04 FR AN1	1.46 ± 0.02	91±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	Insulation FR Type A IS 694
KLJ FRLS M1ES**	1.56 ± 0.02	96±2	80	12.5	150	100	7	± 25	± 25	2	1 X 10 ¹²	Flame Retardant & Low Smoke Sheathing ST2/ST1 IS 5831
KLJ FRLS C1**	1.52 ± 0.02	94±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	Flame Retardant & Low Smoke Insulation Type A IS 694
KLJ FRLS ES**	1.56 ± 0.02	96±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	Flame Retardant & Low Smoke Insulation TYPE A IS5831/ Sheathing ST2 IS 5831
KLJ FRLS ES1 LF**	1.53 ± 0.02	94±2	80	12.5	150	80	7	± 20	± 20	2	1 X 10 ¹²	Flame Retardant & Low Smoke Insulation TYPE A IS5831/ Sheathing ST2 IS 5831 ROHS COMPLIANCE
KLJ FRLS M1 G**	1.56 ± 0.02	96±2	80	12.5	150	100	7	± 25	± 25	2	N.A	Flame Retardant & Low Smoke Sheathing ST2 IS 5831
KLJ-FRLS EC **	1.52 ± 0.02	95±2	100	12.5	150	135	7	± 25	± 35	—	1 X 10 ¹²	Flame Retardant & Low Smoke Insulation Type C IS 5831

SPECIAL COMPOUNDS

KLJ-125 M	1.37 ± 0.02	96±2	400	20	200	150	10	—	—	—	1 X 10 ¹⁴	Wire Harnessing/Automobile Cable Class T3 ISO 6722
KLJ-AY13-LF M	1.32 ± 0.02	96±2	130	20	200	120	5	± 20	± 20	2	5 X 10 ¹³	Wire Harnessing/Automobile Cable Class T2 ISO 6722
KLJ-08 C	1.32 ± 0.02	95±2	240	15	150	135	14	± 25	± 25	1.5*	1 X 10 ¹²	High Temperature Insulation Type-T13 (BS 7655)
KLJ-HR FR LF *	1.41 ± 0.02	95±2	100	15	150	135	7	± 25	± 35	—	1 X 10 ¹²	HR FR Insulation Lead free (Type C IS 5831,85°C)
KLJ-09M HR FR *	1.39 ± 0.02	95±2	100	15	150	135	7	± 25	± 35	—	1 X 10 ¹²	HR FR Insulation Type C (IS 5831,85°C)
KLJ 80 OR PF	1.32 ± 0.02	80±2	80	12	150	80	7	± 20	± 20	2	N.A	PVC/Nitrile flexible sheathing (ST1, IS 5831, TM5 BS 7655)/ Oil Resistance
KLJ 85 TPT M	1.23 ± 0.02	88±2	50	12	150	80	7	± 20	± 20	2	1 X 10 ¹²	PVC transparent sheathing ST1 /TYPE A as per IS 5831
KLJ 85 TPT N	1.23 ± 0.02	90±2	50	12	150	80	7	± 20	± 20	2	N.A	PVC/TPU/NITRILE transparent sheathing compound
KLJ-09C S	1.42 ± 0.02	95±3	240	15	150	135	14	± 25	± 25	1.5*	—	High Temperature Sheathing Type-TM3 BS 7655
KLJ 08I	1.35 ± 0.02	93±2	240	15	150	135	10	± 25	± 25	2@	1 X 10 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
KLJ 08S M	1.35 ± 0.02	88±2	240	12.5	150	135	10	± 25	± 25	2@	—	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	N.A	(-550C) Application BS 7655
KLJ-LT-30	1.30 ± 0.02	92±2	80	10	150	80	7	± 20	± 20	2	1 X 10 ¹²	(-300C) Application Type-T1 5 BS 7655
KLJ-LT-40	1.32 ± 0.02	90±2	80	12.5	125	80	7	± 20	± 20	2	N.A	(-400C) Application Type-T1 4 BS 7655
KLJ W 21	1.31 ± 0.02	60±2D	100	12.5	150	100	7	± 25	± 25	2	1 X 10 ¹⁴	Winding wire insulation compound
KLJ 143	1.38 ± 0.02	94±2	100	15	200	70	7	± 20	± 20	2	1 X 10 ¹⁴	Insulation Mat as per IS 15652:2006 for class C

Remark: Anti-Rhodont/Anti-Termite grades are also available.

Smoke Density Rating 60% max, **** Halogen Acid Gas Emission - 20% Max., @@Temp. Index - 300°C Min., ** LOI-29% Min., G.P-General Purpose.

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.

The specifications given are the guidelines only. Above compound are suitable to run on different machines; however some adjustments may be needed on individual machine. There is no guarantee and or warranty whatsoever. The customers are advised to check the grade suitability for their application, prior to commercial use. Any data may change without prior information and do not constitute the agreed quality of our product.

COLOUR MASTER BATCHES FOR CABLE COMPOUNDS

KLJ offers wide range of colour master batches in PVC, PE and EVA base as well as Universal range of colour master batch. The range of colour master batch meets various national/international requirements of cables industry.

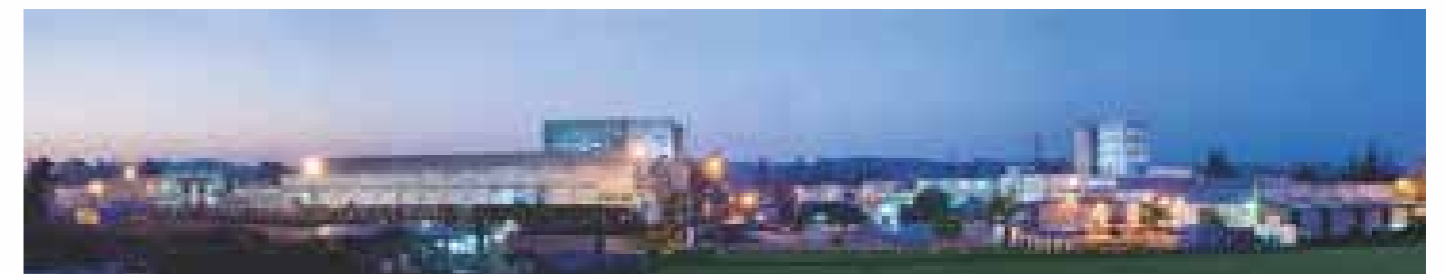
KLJ-VMB VINYL MASTER BATCH	KLJ-UMB UNIVERSAL MASTER BATCH	KLJ-PMB PE MASTER BATCH
FOR PVC COMPOUNDS	FOR SIOPLAS & PVC COMPOUNDS	FOR SIOPLAS COMPOUNDS

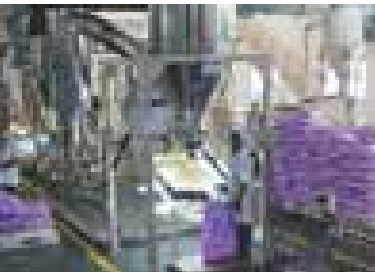
KLJ-PMB / PE MASTER BATCH							
Colour Master batch with Filler				Colour Master batch without Filler			
GRADE	RAL SHADE	DENSITY	REMARKS	GRADE	RAL SHADE	DENSITY	
UNIT		g/cm ³		UNIT		g/cm ³	REMARKS
TEST METHOD		ASTM D 792		TEST METHOD		ASTM D 792	
KLJ XL UV RED	3000	1.5	PE base colour master batch with filler for Sioplas, LDPE, MDPE, HDPE and ZHFR	KLJ XL UV RED (UF)	3000	0.9	PE base colour master batch without filler for Sioplas, LDPE, MDPE, HDPE and ZHFR
KLJ XL UV BLUE	5015	1.5	PE base colour master batch with filler for Sioplas, LDPE, MDPE, HDPE and ZHFR	KLJ XL UV BLUE (UF)	5015	0.9	PE base colour master batch without filler for Sioplas, LDPE, MDPE, HDPE and ZHFR
KLJ XL UV YELLOW	1021	1.5	PE base colour master batch with filler for Sioplas, LDPE, MDPE, HDPE and ZHFR	KLJ XL UV YELLOW (UF)	1021	0.9	PE base colour master batch without filler for Sioplas, LDPE, MDPE, HDPE and ZHFR
KLJ XL UV BLACK	9005	1.5	PE base colour master batch with filler for Sioplas, LDPE, MDPE, HDPE and ZHFR	KLJ XL UV BLACK (UF)	9005	0.9	PE base colour master batch without filler for Sioplas, LDPE, MDPE, HDPE and ZHFR

KLJ-PVC COLOUR MASTER BATCH									
Colour Master batch ROHS/REACH Compliant				Colour Master batch ROHS Compliant			Colour Master batch Regular Range		
Colour Master batch with Filler				Colour Master batch without Filler					
GRADE	RAL SHADE	HARDNESS	REMARKS	GRADE	HARDNESS	REMARKS	GRADE	HARDNESS	REMARKS
UNIT		Shore A		UNIT	Shore A		UNIT	Shore A	
TEST METHOD		ASTM D 2240		TEST METHOD	ASTM D 2240		TEST METHOD	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		PE/EVA	
MB UV	PVC based UV masterbatch	FR MB	PE FR Masterbatches
MB NR	NBR/PVC masterbatch with 70% rubber.	PAMB	PE & EVA based process aid masterbatch
MB TPU	PVC/TPU masterbatch	MB AR AT	PE based AntiRodent / Anti termite masterbatch
MB AR AT	Anti rodent/ Antitermite Masterbatch	MB UV	PE based UV masterbatch
MB AF	PVC based Antifungal Masterbatch		

Remarks: 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 120,000 tpa & expanding

High Capacity Automated Plants to ensure Consistent Quality

PRODUCT RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi-Conductive | EPR | ZHFR | PO | PP | TPR | TPE | EVA | Colour/Performance Master Batch



Trust Built on Performance

KLJ-XL (XLPE SIOPLAS COMPOUNDS)

KLJ-XL (XLPE SIOPLAS COMPOUNDS)

KLJ-XL range is based on silane grafted polyethylene, to be used with catalyst master batch. 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.

GRADE	TENSILE STRENGTH (MIN)	ELONGATION AT BREAK (MIN)	AFTER AGEING 135° C/ 7 DAYS		HOT SET AT 200°C/15 MIN AT 20 N/CM2		SHRINKAGE AT 130°C FOR 1HRS (MAX.)	WATER ABSORPTION AT 85°/14 DAYS	VOLUME RESISTIVITY @ 27°C	MOISTURE CONTENT (MAX.)	COLD BEND TEST AT -30° C	COLD IMPACT TEST AT -30° C	COLD ELONGATION TEST AT -30° C	DIELECTRIC CONSTANT (50HZ) MAX.	DISSIPATION FACTOR (50HZ) MAX.	DIELECTRIC STRENGTH (50HZ) MIN.	CARBON CONTENT	LIMITING OXYGEN INDEX (MIN.)	FLAMMABILITY TEST	CONFORM TO STANDARD	APPLICATION	
			TENSILE STRENGTH	ELONGATION AT BREAK	Elongation under load (Max.)	Permanent Deformation (Max.)																
UNIT	Mpa	%	Mpa	%	%	%	%	mg/cm2	ohm-cm (min)	ppm												
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 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	ASTM D 1603	ASTM D 2863	UL 94			
KLJ XL 01 HS	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	—	—	—	IS 10810 ,BS 5467, 5468, 6724, 7655IEC 60502	High speed, Low Voltage Power Cables (LT application)	
KLJ XL 01	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	—	—	—	IS-7098 Part 1 / IS 10810 ,BS 5467, 5468, 6724, 7655,IEC 60502DIN VDE-0250 Part-214 Type-2X11	Low Voltage Power Cables (LT application)	
KLJ XL 01 AC	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	—	—	—	IS-7098 Part 1 / IS 10810 ,BS 5467, 5468, 6724, 7655,IEC 60502DIN VDE-0250 Part-214 Type-2X11	Low Voltage Power Cables (LT application), Ambient curing	
KLJ XL 01 ABC	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	2.5 ± 0.5	—	—	IS 10810BS 5467, 5468, 6724, 7655IEC 60502	Low voltage aerial bunched cable	
KLJ XL 11	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	—	—	—	IS 10810BS 5467, 5468, 6724, 7655IEC 60502	Medium Voltage Power Cables (HT) applications up to 11 KV	
KLJ XL 33	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	—	—	—	IS 10810BS 5467, 5468, 6724, 7655IEC 60502	Medium Voltage Power Cables (HT) applications up to 33 KV	
KLJ XL FR	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	—	24	V0	Fire survival Test conducted on a resulting insulated cable as per IEC 332 Part 3 category B	Low Voltage Power Cables (LT Applications)	
KLJ XL 01 S	12.5	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	600	No crack	No crack	300	2.2	0.004	22	2.5 ± 0.5	—	—	IS 10810BS 5467, 5468, 6724, 7655IEC 60502	125° rated Silane Grafted XLPE Compound for low voltage power cables and aerial bunched cables. (ageing 150°C/days)	

KLJ PX (PEROXIDE BASED XLPE COMPOUND)

KLJ PX (PEROXIDE BASED XLPE COMPOUND)

Description: KLJ PX 11 & 33 are based on Low Density Poly ethylene compound 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.

GRADE	TENSILE STRENGTH (MIN)	ELONGATION AT BREAK (MIN)	AFTER AGEING 135° C/ 7 DAYS		HOT SET AT 200°C/15 MIN AT 20 N/CM2		SHRINKAGE AT 130°C FOR 1HRS (MAX.)	WATER ABSORPTION AT 85°/14 DAYS	VOLUME RESISTIVITY @ 27°C	MOISTURE CONTENT (MAX.)	COLD BEND TEST AT -30° C	COLD IMPACT TEST AT -30° C	COLD ELONGATION TEST AT -30° C	DIELECTRIC CONSTANT (50HZ) MAX.	DISSIPATION FACTOR (50HZ) MAX.	DIELECTRIC STRENGTH (50HZ) MIN.	IMPURITY DIAMETER		CONFORM TO STANDARD	APPLICATION	
			TENSILE STRENGTH	ELONGATION AT BREAK	Elongation under load (Max.)	Permanent Deformation (Max.)											0.175 - 0.250	>250			
UNIT	Mpa	%	Mpa	%	%	%	%	mg/cm2	ohm-cm (min)	ppm								mm	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 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 PX 11	15 -18	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	200	No crack	No crack	200	2.2	0.004	22				IEC 60502 / 60840HD 620 - S1	compound developed specially for Continuous Vulcanization process to produce medium and high voltage power cables (up to 33 KV)
KLJ PX 33	15 -18	200	± 25	± 25	175	15	4	1	1 X 10 ¹⁴	200	No crack	No crack	200	2.2	0.004	22	2	0		IEC 60502 / 60840HD 620 - S1	compound developed specially for Continuous Vulcanization process to produce medium and high voltage power cables (up to 33 KV)

KLJ EPR (SIOPLAS CROSS LINKABLE ELASTOMERIC COMPOUND)

KLJ EPR (SIOPLAS CROSS LINKABLE ELASTOMERIC COMPOUND)

Description: KLJ-EPR is range of silane crosslinkable polyolefin 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 master batch in the ratio 95:5.

GRADE	TENSILE STRENGTH (MIN)	ELONGATION AT BREAK (MIN)	AFTER AGEING 135° C/ 7 DAYS		HOT SET AT 200°C/15 MIN AT 20 N/CM2		HARDNESS	WATER ABSORPTION AT 85°/14 DAYS	VOLUME RESISTIVITY @ 27°C	DENSITY	COLD BEND TEST AT -50 °C	COLD IMPACT TEST AT -50 °C	COLD ELONGATION TEST AT -50 °C	DIELECTRIC CONSTANT (50HZ) MAX.	DISSIPATION FACTOR (50HZ) MAX.	DIELECTRIC STRENGTH (50HZ) MIN.	FLAMMABILITY TEST	CONFORM TO STANDARD	APPLICATION	
			TENSILE STRENGTH	ELONGATION AT BREAK	Elongation under load (Max.)	Permanent Deformation (Max.)														
UNIT	Mpa	%	Mpa	%	%	%	%	mg/cm2	ohm-cm (min)	g/cm ³										
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 10810 PART 30 / IEC 60502	IS 7098	IS 7098	IS 3396	ASTM D 792	IS 10810 PART 20	IS 10810 PART 21	IS 10810 PART 11	IEC 60250	IEC 60250	IEC 60243				
KLJ EPR 65	11	700	± 40	± 40	90	5	68	5	1 X 10 ¹⁶	0.89	No crack	No crack	>20	2.2	0.004	22			IEC – 60502-2 – EPR , IS 6380 IE -2 ,IS 6380 IE-1	Good flexibility ,Low toxicity , Low voltage insulation ,
KLJ EPR 84	14	500	± 40	± 40	72	3	84	5	1 X 10 ¹⁶	0.92	No crack	No crack	>20	2.2	0.004	22			IEC – 60502-2 – EPR , IS 6380 IE -2 ,IS 6380 IE-1	Good flexibility ,Low toxicity , Low voltage insulation ,
KLJ EPR 95	10	600	± 40	± 40	72	5	95	5	1 X 10 ¹⁶	0.93	No crack	No crack	>20	2.2	0.004	22			IEC – 60502-2 – EPR , IS 6380 IE -2 ,IS 6380 IE-1	Good flexibility ,Low toxicity , Low voltage insulation ,
KLJ EPR FR	11	600	± 40	± 40	80	5	95	5	1 X 10 ¹⁶	1.07							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 customisation, including REACH/ ROHS compliant grades and Antirodent/ Antitermite 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.



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High Capacity Automated Plants to ensure Consistent Quality

PRODUCT RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi-Conductive | EPR | ZHFR | PO | PP | TPR | TPE | EVA | Colour/Performance Master Batch



Trust Built on Performance

KLJ ZHFR (ZHFR COMPOUND)

KLJ ZHFR (ZHFR COMPOUND)

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.

GRADE	DENSITY	HARDNESS	TENSILE STRENGTH	ELONGATION AT BREAK	AFTER AGEING IN AIR AT 100 °C/ 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	CONFORM TO STANDARD	APPLICATION
					TENSILE STRENGTH	ELONGATION AT BREAK														
UNIT	g/cm ³	SH-D	Mpa	%	%	%	%	%	%	%	C	ohm-cm				KV/mm		N/mm		
TEST METHOD	ASTM D 792	ASTM D 2240	IEC 811-1		IEC 811-2		ASTM D 2863	ASTM D 2843	IEC 811-3-1	IEC 60754 Part 1	ISO 4589-3	IS 3396	BS EN 60811-504: 2012	BS EN 60811-504: 2012	IEC:60754-2: 2011	IEC:60754-2: 2011	BS EN 50525 - 1: 2011 Annex C	BS-6469-99.1		
KLJ ZHFR 323	1.45	52	12	220	±20	±20	32	5	22	NIL	>275	1.0 X 10 ¹³	No crack	No crack	7.8	6.5	ND	9	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 323C	1.42	53	13	220	±20	±20	32	5	22	NIL	>275	1.0 X 10 ¹³	No crack	No crack	7.8	6.5	ND	9	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	1.48	59	13	220	±20	±20	34	4	25	NIL	>300	1.0 X 10 ¹³	No crack	No crack	7.2	6.4	ND	7	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 403	1.51	60	12	220	±20	±20	39	5	23	NIL	>300	1.0 X 10 ¹³	No crack	No crack	8.98	6.8	ND	9	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	Used for the production of energy, signal and control cables
KLJ ZHFR 333	1.51	61	11	180	±20	±20	33	8		NIL	>300	1.0 X 10 ¹³								General purpose Insulation and Sheathing/Jacketing application.

KLJ PO (PE COMPOUND)

KLJ PO (PE COMPOUND)

Description: KLJ PE based compound designed for cable jacketing. | Specification: KLJ PE compound meets the following specification.

GRADE	MELT FLOW INDEX 190° C/2.16 KG LOAD	DENSITY	HARDNESS	TENSILE STRENGTH	ELONGATION AT BREAK	AFTER AGEING IN AIR AT 110° C / 14 DAYS		VOLUME RESISTIVITY	SHRINKAGE AT 80°C / 5 HOURS (MAX.)	DIELECTRIC CONSTANT (50HZ) MAX.	DISSIPATION FACTOR (50HZ) MAX.	DIELECTRIC STRENGTH (50HZ) MIN.	OXIDATION INDUCTION TIME	ESCR	CONFORM TO STANDARD	APPLICATION
						ELONGATION AT BREAK	%									
UNIT	g/10min	g/cm ³	SH-D	Mpa	%	%	%	ohm-cm	%			KV/mm	Minutes	Hrs		
TEST METHOD	ASTM D 1238	ASTM D 792	ASTM D 2240	IS 10810 PART 7		IS 10810 PART 11		IS 3396	IS 7098	IEC 60250	IEC 60250	IEC 60243				
KLJ LLDPE	1	0.92	54	16	600	±25	>10 ¹⁴	>10 ¹⁴	3	2.2	0.004	>25	>100	>48	ST - 7 of IEC - 60502 / 60840	Sheathing / Jacketing Compound
KLJ MDPE	0.6	0.938	57	30	750	±25	>10 ¹⁴	>10 ¹⁴	3	2.2	0.004	>25	>100	>500	ST - 7 of IEC - 60502 / 60840	Sheathing / Jacketing Compound
KLJ HDPE	0.4	0.948	58	30	700	±25	>10 ¹⁴	>10 ¹⁴	3	2.2	0.004	>25	>100	>1000	ST - 7 of IEC - 60502 / 60840	Sheathing / Jacketing Compound for communication and energycables

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

KLJ SC (SEMI-CONDUCTING COMPOUND)

KLJ SC (SEMI-CONDUCTING COMPOUND)

GRADE	MELT FLOW INDEX 190° C/21.6 KG	DENSITY AT 27 °C	TENSILE STRENGTH	ELONGATION AT BREAK	AFTER AGEING TS	HARDNESS	DC VOLUME RESISTIVITY		HOT SET AT 200° C/15 MINUTES AT 20 N/CM ²		STRIPPING FORCE	CONFORM TO STANDARD	APPLICATION
							23° C	90° C	ELONGATION UNDER LOAD (MAX.)	PERMANENT DEFORMATION (MAX.)			
UNIT	g/10min	g/cm ³	Mpa	%	%	SH-D	ohm-cm	%	%	N/cm			
TEST METHOD	ASTM D 1238	ASTM D 1505	ASTM D 638	ASTM D	ASTM D 638	ASTM D	IS 3396	IS 10810 PART 30/IEC 60502	KLJ TM				
KLJ SC XL 500	30	1.1	11	300	<25	54	<50	<200	—	—	—	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.
KLJ SC PX 535	NA	1.1	18	200	<25		<100	<1500	100	15	—	IEC - 60502, NEMA – WC – 7, AEIC CS – 5 / AEIC – CS5, IS – 7098 – II	Crosslinkable bonded Semi Conductive Compound For CCV
KLJ SC PX 835	NA	1.15	15	270	<25		<100	<1000	100	15	10-45	IEC - 60502, NEMA – WC – 7, AEIC CS – 5 / AEIC – CS5, IS – 7098 – II	Crosslinkable strippable Semi Conductive Compound For CCV

KLJ XLPO (SIOPLAS CROSS LINKABLE POLYOLEFIN COMPOUND)

KLJ XLPO (SIOPLAS CROSS LINKABLE POLYOLEFIN COMPOUND)

Description: KLJ-XLPO is range of silane crosslinkable polyolefin 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 master batch in the ratio 95:5.

GRADE	TENSILE STRENGTH (MIN)	ELONGATION AT BREAK (MIN)	AFTER AGEING 135° C/ 7 DAYS		HOT SET AT 250C/15 MINUTES AT 20 N/CM2		HARDNESS	WATER ABSORPTION AT 85°/14 DAYS	VOLUME RESISTIVITY @ 27° C	DENSITY	COLD BEND TEST AT -50° C	COLD IMPACT TEST AT -50° C	COLD ELONGATION TEST AT -50° C	DIELECTRIC CONSTANT (50HZ) MAX.	DISSIPATION FACTOR (50HZ) MAX.	DIELECTRIC STRENGTH (50HZ) MIN.	FLAMMABILITY TEST	CONFORM TO STANDARD	APPLICATION
			TENSILE STRENGTH	ELONGATION AT BREAK	ELONGATION UNDER LOAD (MAX.)	PERMANENT DEFORMATION (MAX.)													
UNIT	Mpa	%	Mpa	%	%	%	SH-A	mg/cm2	ohm-cm (min)	g/cm3									
TEST METHOD	IS 10810 PART 7/IEC 60502	IS 10810 PART 7/IEC 60502	IS 10810 PART 11 /IEC 60502		IS 10810 PART 30 /IEC 60502		ASTM D 2240	IS 7098	IS 3396	ASTM D 792	IS 10810 PART 20	IS 10810 PART 21	IS 10810 PART 11	IEC 60250	IEC 60250	IEC 60243	UL 94		
KLJ XLPO 65	10	690	± 40	± 40	100	5	68	5	1 X 10 ¹²	0.89	No crack	No crack	>20	2.2	0.004	25	UL 94	IEC – 60502-2 – EPR , IS 6380 IE -2, IS 6380 IE-1	Good flexibility, Low toxicity, Low voltage insulation
KLJ XLPO 84	13	510	± 40	± 40	80	3	84	5	1 X 10 ¹²	0.92	No crack	No crack	>20	2.2	0.004	25	UL 94	IEC – 60502-2 – EPR , IS 6380 IE -2, IS 6380 IE-1	Good flexibility, Low toxicity, Low voltage insulation
KLJ XLPO 95	11	620	± 40	± 40	80	5	95	5	1 X 10 ¹²	0.93	No crack	No crack	>20	2.2	0.004	25	UL 94	IEC – 60502-2 – EPR , IS 6380 IE -2, IS 6380 IE-1	Good flexibility, Low toxicity, Low voltage insulation



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PRODUCT RANGE OF COMPOUNDS

PVC | Sioplas | Peroxide | Semi-Conductive |
EPR | ZHFR | PO | PP | TPR | TPE | EVA |
Colour/Performance Master Batch



Trust Built on Performance

Product Range

VINYL | PVC Compound

Footwear, Wires & Cables, Medical, Automotive, Sports, Profiles, etc. Dedicated line for Phthalate free grades & separate clean room for Medical / Food grades.

XL | Sioplas PE Insulation Compound

Silane Grafted Forced Cure (up to 33 KV); LT, Aerial Bunch, FR Compounds. Moisture / ambient curable (up to 1.1 KV)

PX | Peroxide PE Insulation Compound

Peroxide XLPE for CCV Lines (up to 33 KV)

SEM | Semi Conductive Cable Compound

Black Semi Conductive Compounds for Shielding of Conductor & Insulation

EPR | EPR Compound

Cross linkable EPR Cable Compound (up to 11 KV)

ZHFR | Zero Halogen Flame Retardant Compound

Sheathing and Insulation for Wires & Cables

PO | Polyolefin Compound

HDPE/MDPE/LDPE Compounds for Insulation & Sheathing

PLENE | Polypropylene Compound

Automotive & Appliances | ISO/TS 16949:2009 Certified

EP | Engineering Polymer Compound

Modified Compounds of ABS, PA, PBT, PC etc for Automotive, Appliance and Electronics & Electrical applications

FLEX | TPR & TPE Compound

Footwear, Medical, Pen Grips, Tooth Brush Grips

VA | EVA Compound

Footwear

Masterbatches

VMB | PVC Master Batch

PMB | PE Master Batch

UMB | Universal Master Batch

Color/Performance Master Batches REACH/RoHS/Phthalate Free grades also available

Applications

- Wires & Cables
- Footwear
- Medical Equipment
- Automotive
- Appliances
- Electrical & Electronics
- Profiles
- Engineering
- Mouldings
- Packaging
- Hygiene
- Sports
- Irrigation, etc.
- Flooring
- Rigid Moldings & Profiles
- Hose Pipes
- Soft Grips
- Pipe Compound

Our 45,000 sft. state-of-the-art R&D facility enables **KLJ GROUP** to be in the forefront of the Latest Development & Product Innovation.

Clear focus on R&D keeps the Group ahead of the competition and provide Customised 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