

KLJ-ZHFR (ZHFR COMPOUND)

Thermoplastic Zero Halogen Flame Retardant Compound for cable grades.

ZHFR compound is based on thermoplastic compound containing a flame retardant system and self extinguishable properties. Compound does not emit halogen acid and produce very low toxic and corrosive gases as well as low smoke under fire condition. ZHFR compounds are used for both insulation application & sheathing application in cable industries.

Specification : The cable made by the above grades meets the following standard specifications.

Cable made by KLJ ZHFR 323

BS EN :- 50363 Type Tl6 & Tl7

VDE 0270/24 VDE 0207/23 HJ1

BS 7211

Cable made by KLJ ZHFR 3220

BS EN - 50363 Type TM7

VDE 0270/24 Hm2, HM4 VDE 0207/23 HJ2

BS 7655 LTS2, IEC 600092 SHF1

PHYSICAL PROPERTIES

PARAMETERS	UNIT	TEST METHOD	KLJ ZHFR 323	KLJ ZHFR 3220
Density	g/cm ³	ASTM-D-792	1.45 ± 0.02	1.45 ± 0.02
Hardness	Sh-D	ASTM-D-2240	47 ± 2	47 ± 2
Tensile Strength (Min.)	Mpa	IEC-811-1-1	12	10.5
Elongation at Break (Min.)	%	IEC-811-1-1	220	200
After Ageing in Air at 100°C for 168 Hrs.				
Tensile Strength (Min.)	Mpa	IEC-811-1-2		
Variation in Tensile Strength	%	IEC-811-1-2	± 20	± 20
Elongation at Break (Min.)	%	IEC-811-1-2		
Variation in Elongation at Break	%	IEC-811-1-2	± 20	± 20
Oxygen Index (Min.)	%	ASTM D-2863	30.5	30.5
Smoke Density Rating (Max.)	%	ASTM D-2843	20	20
Pressure Test at 80°C Indentation (Max.)	Mpa	IEC 811-3-1	35	35
Acid Gas Emission Test (% HCL Emission) (Max.)	%	IEC-60754 Part-1	0.30	0.30

Note: Processing Guidelines, Packaging Details, MSDS and any further details can be provided upon request.