

Polyvinyl Chloride (PVC)

Grade: PC-FRLS01 | **Application:** Wires & Cables

Material Description: This material is best suited for flame retardant low smoke (FRLS) wires application has high thermal stability, excellent strength and flame retardant properties made with high quality raw materials. Can be used in both insulation and sheathing according to customer's requirement.

General Information

Material Status		● Active					
Availability		● Asia Pacific	● Africa				
		● Europe	● Middle East				
Features		● Excellent Heat Stability	● Flame Retardant	● High Strength			
Form		● Pellets					
Processing Method		● Extrusion					

ASTM & ISO PROPERTIES

Physical		Test Method	Unit	Nominal
Density/Specific gravity		ASTM - D - 792		1.50±0.02
Mechanical				
Tensile At Break (Before Ageing)		IS : 10810	N/mm ²	≥ 16.0
Elongation At Break (Before Ageing)		IS : 10810	%	≥ 250
Hardness		ASTM - D 2240	Shore A	91± 2
After ageing @ 80°C ± 2°C for 7 days				
Variation in Tensile strength		IS : 10810	%	±10
Variation in Elongation		IS : 10810	%	±10
Thermal Stability @200° C± 0. 5°C		IS : 10810	Minutes	≥ 175
Volume Resistivity @27°C		IS : 3396 / 79	Ohm - cm	≥ 1X10 ¹⁴
Loss Of Mass In Air Oven @ 80°C ± 2°C for 7 days				
Loss Of Mass		IS : 10810	mg/cm ²	0.6
FRLS TEST				
Oxygen index		IS : 10810	%	32
Temperature Index		IS : 10810	°C	≥275
Smoke density			%	52
Light Transmission			%	48
HCL Emission			%	18

Notes: Test specimen made after milling the granules and then in compression mould at 160 °C for 10 min with 200kg / cm² hydraulic pressure.

Additional Information: N/A

Packaging: Available in 25 kg woven sacks bag with PE liner to prevent moisture or in 1000kg jumbo bags.

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