

**Polyvinyl Chloride (PVC)**

Grade: **PC-FRLS02** | 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		● Ultra Smoothness	● Low Cost	● High Flexibility		
Form		● Pellets				
Processing Method		● Extrusion				

**ASTM & ISO PROPERTIES**

Physical	Test Method	Unit	Nominal
Density/Specific gravity	ASTM - D - 792		1.56±0.03
<b>Mechanical</b>			
Tensile At Break (Before Ageing)	IS : 10810	Mpa	≥ 14.0
Elongation At Break (Before Ageing)	IS : 10810	%	≥ 150
Hardness	ASTM - D 2240	Shore A	92± 2
<b>After ageing @ 80°C ± 2°C for 7 days</b>			
Variation in Tensile strength	IS : 10810	%	≤ ± 15.0
Variation in Elongation	IS : 10810	%	≤ ± 15.0
<b>Thermal Stability @200° C± 0. 5°C</b>			
Volume Resistivity @27°C	IS : 3396 / 79	Ohm - cm	NA
<b>Loss Of Mass In Air Oven @ 80°C ± 2°C for 7 days</b>			
Mass Loss on Ageing	IS : 10810	mg/cm2	≤ 1.25
<b>FRLS TEST</b>			
Limiting Oxygen Index	IS : 10810	%	≥ 30.0
Temperature Index	IS : 10810	°C	≥260
Smoke density	ASTM - D 2843	%	58
Halogen Acid Gas Emission	IEC: 60754-1	%	≤ 18.0

**Notes:** Test specimen made after milling the granules and then in compression mould at 160 °C for 10 min with 200kg / cm<sup>2</sup> 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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