

Polyvinyl Chloride (PVC)

Grade: **PC-FR01** | Application: **Wires & Cables**

Material Description: This material is best suited for flame retardant (FR) 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	Mpa	17.5
Elongation At Break (Before Ageing)	IS : 10810	%	290
Hardness	ASTM - D 2240	Shore A	90± 2
Thermal Stability @200° C± 0. 5°C	IS : 10810	Minutes	110
Volume Resistivity @27°C	IS : 3396 / 79	Ohm - cm	≥ 2X10 ¹⁴
After ageing @ 80°C ± 2°C for 7 days			
After ageing Tensile strength	IS : 10810	%	16.8
Variation in Tensile strength	IS : 10810	%	-6.66
After aging Elongation	IS : 10810	%	270
Variation in Elongation	IS : 10810	%	-6.89
Loss Of Mass In Air Oven @ 80°C ± 2°C for 7 days			
Loss Of Mass	IS : 10810	mg/cm ²	0.6
Flame Retardant Test			
Oxygen index	IS : 10810	%	30.5
Temperature Index	IS : 10810	°C	≥250

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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