

Plastcom SLOVALEN PH 96 FRD 1 PP, flame retardant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

FeaturesDetermined for environment, where contact with water is possible, because the electric properties do not change by conditioning.

Application - terminals, coil forms, guides in washing machines, tea-pots, dish-washers. Delivered in natural mode and in the full RAL

colour scale. Modified homopolymer PP, retarded type with halogen flame retardant. Fulfills basic electric properties: flammability in

accordance with UL 94 V2 and 960°C glow wire.Packaging, transport, stockingThe product is packed in hermetically closed thick-walled 25

kg PE bags, on a 1.000 kg palette coated in a stretch foil, in big bags with a thick PE foil fixed on a 1.000 kg palette, in paper octabins with a

thick PE foil fixed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up

vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places

protected against sun and thermal radiation.Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVALEN-PH-96-FRD-1-PP-flame-retardant.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	
Linear Mold Shrinkage	0.0218 cm/cm	0.0218 in/in	
Linear Mold Shrinkage, Transverse	0.0197 cm/cm	0.0197 in/in	
Melt Flow	25 g/10 min @Load 0.325 kg, Temperature 270 °C	25 g/10 min @Load 0.716 lb, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	
Elongation at Break	10 %	10 %	
Tensile Modulus	2.20 GPa	319 ksi	
Flexural Strength	35.0 MPa	5080 psi	
Flexural Modulus	1.70 GPa	247 ksi	
Charpy Impact Unnotched	1.50 J/cm ² @Temperature -20.0 °C	7.14 ft-lb/in ² @Temperature -4.00 °F	
	9.00 J/cm ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	
Charpy Impact, Notched	0.100 J/cm ² @Temperature -20.0 °C	0.476 ft-lb/in ² @Temperature -4.00 °F	

Mechanical Properties	Metric	English	Comments
	11.500 J/cm ²	7.000 lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	
Vicat Softening Point	150 °C	302 °F	B
Flammability, UL94	V-2	V-2	
Glow Wire Test	960 °C	1760 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	
Dielectric Strength	26.0 kV/mm	660 kV/in	
Comparative Tracking Index	450 V	450 V	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Pressure	50.0 - 80.0 MPa	7250 - 11600 psi	

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