

Plastcom SLOVAMID 66 FRC 3 PA 66 basic type with flame retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Features: Modified for general use, with excellent manufacturing properties, characterized by high strength and toughness also at minus temperatures. Used in automotive, electrical, engineering and consumer goods industry. **Application:** electric tools, gear wheels, clamps, fasteners, toolbodies, webbing slings for cable harnesses. Possible use for products with wall thickness from 0.5 mm. High grade brightness also at coloured types. Delivered in the full RAL colour scale. **Packaging, transport, stocking:** The 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-SLOVAMID-66-FRC-3-PA-66-basic-type-with-flame-retardant.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	
Linear Mold Shrinkage, Transverse	0.0193 cm/cm	0.0193 in/in	
Melt Flow	4.0 g/10 min @Load 0.325 kg, Temperature 275 °C	4.0 g/10 min @Load 0.716 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	
Elongation at Break	3.0 %	3.0 %	
Tensile Modulus	3.20 GPa	464 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	2.70 GPa	392 ksi	
Charpy Impact Unnotched	9.00 J/cm ² @Temperature -20.0 °C	42.8 ft-lb/in ² @Temperature -4.00 °F	
	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	
Charpy Impact, Notched	0.150 J/cm ² @Temperature -20.0 °C	0.714 ft-lb/in ² @Temperature -4.00 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	
Vicat Softening Point	250 °C	482 °F	
Flammability Test	5.0 @Thickness 1.60 mm	5.0 @Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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