

## Plastcom SLOVAMID 6 FRC 1 PA6 with flame retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

### Material Notes:

**Features:** Determined for electrotechnical use. Delivered in natural mode. PA 6 for injection moulding with reduced flammability, with nonhalogen flame retardant. Excellent fluidity of the material predetermines it for the manufacturing of complicated small and large surface mouldings. 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-6-FRC-1-PA6-with-flame-retardant.php](http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-FRC-1-PA6-with-flame-retardant.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	
Elongation at Break	4.0 %	4.0 %	
Tensile Modulus	3.40 GPa	493 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	2.80 GPa	406 ksi	
Charpy Impact Unnotched	11.0 J/cm <sup>2</sup>	52.3 ft-lb/in <sup>2</sup>	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	12.0 J/cm <sup>2</sup>	57.1 ft-lb/in <sup>2</sup>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

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

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	
Vicat Softening Point	225 °C	437 °F	
Flammability Test	3.0 @Thickness 1.60 mm	3.0 @Thickness 0.0630 in	
Glow Wire Test	850 °C @Thickness 3.00 mm	1560 °F @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	
Dielectric Strength	20.0 kV/mm	508 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	
Injection Pressure	70.0 - 100 MPa	10200 - 14500 psi	

## Contact Songhan Plastic Technology Co.,Ltd.

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