

## Plastcom SLOVAMID® 6 GF 30 FRG 2 PA6 reinforced with glass fiber, flame retarded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

### Material Notes:

PA 6 for injection molding, reinforced with 30 % glass fiber, flame retarded with halogen free flame retardant. Main features: flammability in accordance with UL 94 5 at 3.2 mm. Application for the electrical industry: protectors, coil forms, covers, terminals. Delivered in natural mode and in the full RAL color scale. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plastcom-SLOVAMID-6-GF-30-FRG-2-PA6-reinforced-with-glass-fiber-flame-retarded.php](http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-GF-30-FRG-2-PA6-reinforced-with-glass-fiber-flame-retarded.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	STN EN ISO 1183-1
Filler Content	30 %	30 %	Glass Fiber
Linear Mold Shrinkage	0.0046 cm/cm	0.0046 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0058 cm/cm	0.0058 in/in	STN EN ISO 294-4
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	9.20 GPa	1330 ksi	STN EN ISO 527-2
Flexural Strength	225 MPa	32600 psi	STN EN ISO 178
Flexural Modulus	8.54 GPa	1240 ksi	STN EN ISO 178
Charpy Impact Unnotched	4.60 J/cm <sup>2</sup> @Temperature -20.0 °C	21.9 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	STN EN ISO 179
	6.80 J/cm <sup>2</sup> @Temperature 23.0 °C	32.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.800 J/cm <sup>2</sup> @Temperature -20.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	STN EN ISO 179
	1.00 J/cm <sup>2</sup> @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	225 °C	437 °F	STN EN ISO 306
Flammability, UL94	V-2	V-2	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-1	V-1	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	650 °C	1200 °F	STN EN 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	70.0 kV/mm	1780 kV/in	STN EN 60243-2
Comparative Tracking Index	600 V	600 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	70.0 - 80.0 °C	158 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 3344
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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