

## Plastcom SLOVAMID 6 NGR PA6, basic type

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

**Features** PA 6 for injection moulding, modified for general use, with excellent manufacturing properties. Use: automotive, engineering, electrical and consumer-goods industry - electrical tools, fasteners, clamps, hobby tools, toys. Delivered in the natural and 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-NGR-PA6-basic-type.php](http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-NGR-PA6-basic-type.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	
Viscosity Measurement	1.8 - 1.83	1.8 - 1.83	
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	
Linear Mold Shrinkage, Transverse	0.0183 cm/cm	0.0183 in/in	
Melt Flow	6.0 g/10 min @Load 0.325 kg, Temperature 270 °C	6.0 g/10 min @Load 0.716 lb, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	
Elongation at Break	3.5 %	3.5 %	
Tensile Modulus	3.10 GPa	450 ksi	
Flexural Strength	115 MPa	16700 psi	
Flexural Modulus	2.70 GPa	392 ksi	
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup> @Temperature -20.0 °C	38.1 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	
	12.0 J/cm <sup>2</sup> @Temperature 23.0 °C	57.1 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	
Charpy Impact, Notched	0.150 J/cm <sup>2</sup>	0.714 ft-lb/in <sup>2</sup>	

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
	0.160 J/cm <sup>2</sup>	0.761 ft-lb/in <sup>2</sup>	
	@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)	50.0 °C	122 °F	
Vicat Softening Point	190 °C	374 °F	B
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	at 3 mm

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	18.0 kV/mm	457 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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