

## Plastcom SLOVAMID 6 CF 20 PA6, 20% carbon fibre

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber Filled

### Material Notes:

Features Chemically reinforced with 20 % carbon fibre, suitable for mouldings with high strength and toughness also at minus temperatures. Used in the automotive, engineering and electrical industry. Application: hobby tools, covers of electrotools, electromotors, cooling screws of blowers, gear wheels, carrying parts in the automotive industry like eg. brake cables. Delivered in black color. 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-CF-20-PA6-20-carbon-fibre.php](http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-CF-20-PA6-20-carbon-fibre.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	
Viscosity Measurement	0.68 - 1.39	0.68 - 1.39	
Linear Mold Shrinkage	0.0068 cm/cm	0.0068 in/in	
Linear Mold Shrinkage, Transverse	0.0139 cm/cm	0.0139 in/in	
Melt Flow	3.0 g/10 min @Load 0.325 kg, Temperature 270 °C	3.0 g/10 min @Load 0.716 lb, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	230 MPa	33400 psi	
Elongation at Break	2.5 %	2.5 %	
Tensile Modulus	17.0 GPa	2470 ksi	
Flexural Strength	200 MPa	29000 psi	
Flexural Modulus	15.0 GPa	2180 ksi	
Charpy Impact Unnotched	4.10 J/cm <sup>2</sup> @Temperature -20.0 °C	19.5 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	
	5.00 J/cm <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	

<b>Charpy Impact, Notched Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melting Point	220 °C	428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	
Vicat Softening Point	200 °C	392 °F	B
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	

<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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