

CENTROPLAST CENTROMID 6.6 CF 20 Polyamide 6.6 carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Carbon Fiber Filled

Material Notes:

This material has very high strength and a high operating temperature. It can be used for precision components, drive parts and housings. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-66-CF-20-Polyamide-66-carbon-fiber.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.2 %	2.2 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	6.5 %	6.5 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	240 MPa	34800 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	230 MPa	33400 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	2.5 %	2.5 %	ISO 527-2
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527-2
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C	13.9 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.430 W/m-K	2.98 BTU-in/hr-ft ² -°F	
Melting Point	260 °C	500 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	180 °C	356 °F	Long Term
	240 °C	464 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	ISO 75-2
	HB	HB	

Flammability: UL 94 Thermal Properties		Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	Comments
		HB	HB	
		@Thickness 6.00 mm	@Thickness 0.236 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China