

CENTROPLAST CENTROMID 6 G Polyamide 6 Cast

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

Material Notes:

This material has good machinability and can be bonded or welded. Its applications include sliding bearings, hammerheads, and toothed gears. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-6-G-Polyamide-6-Cast.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.3 %	2.3 %	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
Hardness, Rockwell M	88 @Thickness 10.0 mm	88 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	165 MPa	23900 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	85.0 MPa	12300 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	25 %	25 %	ISO 527-2
Tensile Modulus	3.50 GPa	508 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft ² -°F	
Melting Point	220 °C	428 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	105 °C	221 °F	Long Term
	170 °C	338 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.012	0.012	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.016	0.016	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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