

CENTROPLAST CENTROMID 12 Polyamide 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

This extruded material has good impact resistance, low moisture absorption and good chemical resistance. It is used in precision elements, drive parts, cases and housings. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-12-Polyamide-12.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.70 %	0.70 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	1.5 %	1.5 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80 @Thickness 10.0 mm	80 @Thickness 0.394 in	ISO 2039-2
Tensile Strength, Yield	40.0 MPa	5800 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2
Tensile Modulus	1.30 GPa	189 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	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	120 µm/m-°C @Temperature 20.0 °C	66.7 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Melting Point	178 °C	352 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	95.0 °C	203 °F	Long Term
	150 °C	302 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-2
Flammability, UL94	HB	HB	

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	32.0 kV/mm	813 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.026	0.026	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Food Compliance	yes	BGVV
	yes	FDA

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