

CENTROPLAST CENTROMID 6.6 Polyamide 6.6

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Unreinforced

Material Notes:

This material has good hardness, wear resistance, abrasion strength and impact strength. It is used for bearing cages, sliding bearings and articulated joint blocks. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-66-Polyamide-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.4 %	2.4 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	8.0 %	8.0 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ISO 2039-2
	@Thickness 10.0 mm	@Thickness 0.394 in	
Ball Indentation Hardness	160 MPa	23200 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	90.0 MPa	13100 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	>= 40 %	>= 40 %	ISO 527-2
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-2
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	
Melting Point	260 °C	500 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	95.0 °C	203 °F	Long Term
	180 °C	356 °F	Short term

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	85.0 °C Metric	185 °F English	ISO 75-2 Comments
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	
Flammability, UL94	V-2	V-2	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	V-2	V-2	
	@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	3.3	3.3	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.013	0.013	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	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

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