

## CENTROPLAST CENTROMID 6 E Polyamide 6 extruded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Extruded

### Material Notes:

This tough and impact resistant material has good chemical resistance and can be bonded and welded. It is used for sealing rings, flanges, etc. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CENTROPLAST-CENTROMID-6-E-Polyamide-6-extruded.php](http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-6-E-Polyamide-6-extruded.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	2.5 %	2.5 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	9.0 %	9.0 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85 @Thickness 10.0 mm	85 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	150 MPa	21800 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	76.0 MPa	11000 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2
Tensile Modulus	3.25 GPa	471 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm <sup>2</sup>	2.62 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	220 °C	428 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	85.0 °C	185 °F	Long Term
	160 °C	320 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °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	3.3	3.3	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.9	3.9	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	0.019	0.019	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.021	0.021	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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