

## CENTROPLAST CENTROMID 6 E FG Polyamide 6 extruded, Food Grade

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. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

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

Descriptive Properties	Value	Comments
Color	Natural	
Food Compliance	Yes	BfR
	Yes	FDA

## Contact Songhan Plastic Technology Co.,Ltd.

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