

## CENTROPLAST CENTROMID 6.6 FG Polyamide 6.6, Food Grade

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

### Material Notes:

This material has good hardness, wear resistance, abrasion strength and impact strength. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CENTROPLAST-CENTROMID-66-FG-Polyamide-66-Food-Grade.php](http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-66-FG-Polyamide-66-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	2.4 %	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 @Thickness 10.0 mm	88 @Thickness 0.394 in	ISO 2039-2
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 <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	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	0.280 W/m-K	1.94 BTU-in/hr-ft <sup>2</sup> -°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
Color	Natural	
Food Compliance	yes	BGVV
	yes	FD A

## Contact Songhan Plastic Technology Co.,Ltd.

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