

## CENTROPLAST CENTROCARB GF Polycarbonate 30% glass fiber

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

### Material Notes:

CENTROCARB GF is a transparent or semi-transparent plastic, reinforced for high strength and impact resistance. It has a high tensile modulus of elasticity and is well suited for structural elements, and insulating components. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CENTROPLAST-CENTROCARB-GF-Polycarbonate-30-glass-fiber.php](http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROCARB-GF-Polycarbonate-30-glass-fiber.php)

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.080 %	0.080 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	value at 30 sec.; ISO 2039-1
Tensile Strength at Break	55.0 MPa	7980 psi	v = 5 mm/min; ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	5.00 GPa	725 ksi	ISO 527-2
Flexural Modulus	4.70 GPa	682 ksi	ISO 178
Charpy Impact Unnotched	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	120 °C	248 °F	Long Term
	140 °C	284 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ISO 75-2
Vicat Softening Point	148 °C	298 °F	VST/B/50; ISO 306

Thermal Properties	V-2 Metric	V-2 English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-2	V-2	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0080	0.0080	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	IEC 60112

## Contact Songhan Plastic Technology Co.,Ltd.

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