

## CENTROPLAST CENTROCARB Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Extruded

### Material Notes:

CENTROCARB is a transparent or semi-transparent plastic with high strength and impact resistance. It is dimensionally rigid and has very good electrical insulating properties. It is used in containers, distributor blocks, and optical components. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.35 %	0.35 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75 @Thickness 10.0 mm	75 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	120 MPa	17400 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	70.0 MPa	10200 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-2
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 µm/m-°C @Temperature 20.0 °C	36.1 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	120 °C	248 °F	Long Term
	130 °C	266 °F	Short term
Deflection Temperature at 1.8 MPa	130 °C	266 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Vicat Softening Point	150 °C	302 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
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+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	29.0 kV/mm	737 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0090	0.0090	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	225 V	225 V	IEC 60112

Descriptive Properties	Value	Comments
Food Compliance	yes	BGVV
	yes	FD A

## Contact Songhan Plastic Technology Co.,Ltd.

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