

## GEHR Plastics PC Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Polycarbonate shows a high rigidity and an extreme impact strength. Also it has a high glass transition temperature and temperature resistance. The operating temperature ranges from -60Â°C to approximately 120Â°C. Properties extremely high impact strength high mechanical strength high dimensional stability high temperature resistance good insulating properties high resistance to radiation medium chemical resistance notch-sensitive and susceptible to stress crack formation hydrolysis-sensitive

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_GEHR-Plastics-PC-Polycarbonate.php](http://www.lookpolymers.com/polymer_GEHR-Plastics-PC-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ISO 1183
Water Absorption	0.35 %	0.35 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	DIN 53505
Ball Indentation Hardness	120 MPa	17400 psi	ISO 2039
Tensile Strength, Yield	70.0 MPa	10200 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	ISO 527
Modulus of Elasticity	2.40 GPa	348 ksi	ISO 527
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C	266 Â°F	ISO 75
Minimum Service Temperature, Air	-60.0 Â°C	-76.0 Â°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	VDE 0303

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.00e+15 ohm	1.00e+15 ohm	UL 94 V0
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	DIN 53483
Dielectric Loss Index	0.0080 @Frequency 1.00e+6 Hz	0.0080 @Frequency 1.00e+6 Hz	DIN 53483
Comparative Tracking Index	225 V	225 V	CTI; IEC 60112

Descriptive Properties	Value	Comments
Acid Resistance	yes	
Aromatic Resistance	no	
Bondability	yes	
CKW Resistance	no	
Color	Clear	
Hydrocarbonate Resistance	limited	
Hydroxide Resistance	no	
Ketone Resistance	limited	
Physiological indifference according	yes	
Resistance Against Hot Water	limited	
UV Stabilization	no	

## Contact Songhan Plastic Technology Co.,Ltd.

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