

## Ensinger Hydel® PC-7 Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

### Material Notes:

A polycarbonate based material with a proprietary carbon filler component. The highly dispersed filler imparts outstanding electrical consistency to minimize any hot spots. The material has good repeatability and predictability of any commercially available carbon based filler. HYDEL® PC-7 has minimal sloughing as compared to other carbon based fillers. This material also retains much of the physical properties of polycarbonate without the loss of impact and tensile properties that can occur with standard carbon based or fiber fillers. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-Hydel-PC-7-Polycarbonate-PC.php](http://www.lookpolymers.com/polymer_Ensinger-Hydel-PC-7-Polycarbonate-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
	@Temperature 22.8 °C, Time 86400 sec	@Temperature 73.0 °F, Time 24.0 hour	
Water Absorption at Saturation	0.15 %	0.15 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Tensile Modulus	2.30 GPa	333 ksi	ASTM D638
Flexural Strength	74.5 MPa	10800 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Compressive Strength	84.8 MPa	12300 psi	ASTM D695
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.12	0.12	50 fpm
	@Pressure 0.276 MPa	@Pressure 40.0 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	66.6 µm/m-°C	37.0 µin/in-°F	
Maximum Service Temperature, Air	127 °C	260 °F	continuous
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	ASTM D648

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
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Surface Resistivity per Square	1e+05 - 1.00e+7 ohm	1e+05 - 1.00e+7 ohm	ASTM D257
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Descriptive Properties	Value	Comments
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Base Material	Polycarbonate	
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## Contact Songhan Plastic Technology Co.,Ltd.

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