

Ensinger Hydrel® PC-P ESD Polycarbonate (PC)

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

Material Notes:

HYDEL® PC-P ESD polycarbonate is a static dissipative thermoplastic product containing carbon powder. This material has good stiffness, excellent dimensional ability, and low outgassing properties. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Hydrel-PC-P-ESD-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Temperature 22.8 °C, Time 86400 sec	@Temperature 73.0 °F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	132 °C	270 °F	continuous
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	ASTM D648
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.00e+7 - 1.00e+12 ohm	1.00e+7 - 1.00e+12 ohm	ASTM D257

Descriptive Properties	Value	Comments
Base Material	Polycarbonate	

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