

HYDEL® PC-P ESD

Polycarbonate

Ensinger Inc.

Message:

In recent years, industry has demanded a range of materials that not only possess strength, wear properties, heat and chemical resistance but materials that are less resistive to the build-up of a static charge. Ensinger has a family of such materials; their properties are listed on the reverse side of this sheet and described below.

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.

General Information			
Filler / Reinforcement	Carbon powder		
Features	Good dimensional stability		
	The degassing effect is low to no		
	Rigid, good		
	Good strength		
	Good chemical resistance		
	Good wear resistance		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm³	ASTM D792
Water Absorption			ASTM D570
Saturation	0.18	%	ASTM D570
Balance	0.18	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	65.5	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	107	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	132	°C	
Heat Deflection Temperature	132	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 - 1.0E+12	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Additional Information			

Data obtained from extruded shapes material.

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Recommended distributors for this material

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