



HYDEL® PC-7 / PEI-7 ESD

Static Dissipative Poly Carbonate / PolyEtherImide / Static Dissipative Ultem



PRODUCT CAPABILITIES:

- Rod : 1/4" - 2" (PC-7)
1/4" - 2.5" (PEI-7)
- Sheet : 1/4" - 2"

ADVANTAGES:

- Graphite Micro-Fibers Filled
- Consistent Electrical Properties
- Excellent Surface Quality
- Minimal Sloughing
- Outstanding Toughness
- Excellent Thermal Stability
- Good Dimensional Stability

PRODUCT COLORS:

- Black

APPLICATIONS INCLUDE:

- Disk Drive Assembly Fixtures
- Semiconductor/Electronic Components
- Telecommunication Hardware
- Automotive Equipment

GENERAL PROPERTIES	ASTM or UL Test	HYDEL® PC-7 ESD Typical Values	HYDEL® PEI-7 ESD Typical Values
PHYSICAL			
Specific Gravity (g/cm ³)	D792	1.22	1.26
Water Absorption, 24 hrs (%)	D570	0.15	0.25
MECHANICAL			
Tensile Strength (psi)	D638	9,000	9,400
Tensile Elongation at Yield (%)	D638	8	4
Tensile Modulus (psi)	D638	333,000	400,000
Flexural Strength (psi)	D790	10,800	16,250
Flexural Modulus (psi)	D790	340,000	424,000
Compressive Strength (psi)	D790	12,300	16,200
IZOD Notched Impact (ft-lb/in)	D256	1.2	1.4
Hardness, Rockwell	D785	R 120	R 123
THERMAL			
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	3.7	2.9
Heat Deflection Temp (°F / °C) @ 264 psi	D648	280 / 138	390 / 199
Maximum Operation Temp (°F / °C)	-	260 / 127	340 / 171
Flammability Rating	UL-94	HB	V-O
ELECTRICAL			
Dielectric Strength (V/mil) short time, 1/8" thk	D149	-	-
Dielectric Constant at 1 KHz	D150	-	-
Surface Resistivity (ohms/sq) @ 100V	D257	10 ⁷ - 10 ⁹	10 ⁶ - 10 ⁸
Volume Resistivity (ohm-cm) @ 50% RH, 100V	D257	10 ⁷ - 10 ⁹	10 ⁶ - 10 ⁸

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.