

Quadrant EPP Semitron® ESd 490HR

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Semitron® ESd 490HR is a Polyetheretherketone (PEEK) product. It can be processed by compression molding and is available in North America. Typical application: Electrical/Electronic Applications.

Characteristics include:

Flame Rated

Chemical Resistant

Antistatic

General Information			
Additive	Antistatic		
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Antistatic		
	Hydrocarbon Resistant		
	Solvent Resistant		
Uses	Electrical/Electronic Applications		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.18	%	
Saturation	1.7	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	105		
R-Scale	123		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6480	MPa	ASTM D638
Tensile Strength (Ultimate)	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.3	%	ASTM D638
Flexural Modulus	6550	MPa	ASTM D790
Flexural Strength (Yield)	145	MPa	ASTM D790
Compressive Modulus	4140	MPa	ASTM D695
Compressive Strength (10% Strain)	179	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.20		Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	246	°C	
Limiting Pressure Velocity ¹	0.596	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	340	°C	ASTM D3418
CLTE - Flow ² (-40 to 149°C)	5.0E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	1.0E+10 to 1.0E+12	ohms	Internal Method
Dielectric Constant (1 MHz)	5.33		ASTM D150
Dissipation Factor (1 MHz)	0.23		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	V-0		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		
3.	EOS/ESD S11.11		

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