

Quadrant EPP Semitron® ESd 410C

Polyether Imide

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Semitron® ESd 410C is a Polyether Imide (PEI) product. It is available in Europe. Typical application: Electrical/Electronic Applications.
Characteristics include:
Flame Rated
Good Dimensional Stability
Moisture Resistant

General Information			
Features	Good Dimensional Stability		
	Low to No Water Absorption		
Uses	Electrical/Electronic Applications		
Appearance	Black		
Forms	Disc		
	Preformed Parts		
	Rod		

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	1.4	%	
Equilibrium, 23°C, 50% RH	0.75	%	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	115		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6400	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	62.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1B/5

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	170	°C	
-- 2	200	°C	
Glass Transition Temperature	215	°C	
CLTE - Flow			
23 to 100°C	3.5E-5	cm/cm/°C	

23 to 150°C	3.5E-5	cm/cm/°C	
> 150°C	3.5E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.35	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	IEC 60093
Volume Resistivity	1.0E+4 to 1.0E+6	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	47	%	ISO 4589-2
NOTE			
1.	20000 hrs		
2.	Short periods		

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