

Quadrant EPP PEI 1000

Polyether Imide

Quadrant Engineering Plastic Products

Message:

Quadrant EPP PEI 1000 is a Polyether Imide (PEI) product. It is available in Europe. Applications of Quadrant EPP PEI 1000 include wire & cable and electrical/electronic applications.

Characteristics include:

Flame Rated

Good Dimensional Stability

Rigid

General Information			
Features	Good Dimensional Stability		
	Good Electrical Properties		
	Good Strength		
	High Rigidity		
	Low Smoke Emission		
Uses	Cable Jacketing		
	Electrical/Electronic Applications		
	Electronic Insulation		
Appearance	Amber		
	Natural Color		
	Translucent		
Forms	Disc		
	Preformed Parts		
	Rod		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.26	%	
Saturation, 23°C	1.4	%	
Equilibrium, 23°C, 50% RH	0.75	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	0.54	%	
23°C, 3.00 mm ²	41.0	mg	
23°C, 3.00 mm ³	20.0	mg	
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (M-Scale, 10.0 mm)	114		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	170	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	105	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	10	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	49.0	MPa	
1% Strain	25.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁴	170	°C	
-- ⁵	200	°C	
Glass Transition Temperature	215	°C	
CLTE - Flow			
23 to 100°C	4.5E-5	cm/cm/°C	
23 to 150°C	4.5E-5	cm/cm/°C	
> 150°C	4.5E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.22	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	27	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.00		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	2.0E-3		
Comparative Tracking Index	175	V	IEC 60112
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.	96 hrs		

2.	Weight, 96 hrs
3.	Weight, 24 hrs
4.	20000 hrs
5.	Short periods

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

