

Quadrant EPP PSU 1000

Polysulfone

Quadrant Engineering Plastic Products

Message:

Quadrant EPP PSU 1000 is a Polysulfone (PSU) product. It is available in Europe.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Heat Resistant
- High Purity
- Radiation (Gamma) Resistant

General Information			
Features	Autoclavable		
	Good Chemical Resistance		
	High Heat Resistance		
	High Purity		
	Hydrolysis Resistant		
	Radiation (Gamma) Resistant		
Appearance	Natural Color		
	Translucent		
Forms	Disc		
	Preformed Parts		
	Rod		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.32	%	
Saturation, 23°C	0.85	%	
Equilibrium, 23°C, 50% RH	0.40	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	0.61	%	
23°C, 3.00 mm ²	44.0	mg	
23°C, 3.00 mm ³	23.0	mg	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	91		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	155	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1B/1

Tensile Stress (Yield)	80.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	10	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	39.0	MPa	
1% Strain	20.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	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)	170	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁴	150	°C	
-- ⁵	180	°C	
Glass Transition Temperature	190	°C	
CLTE - Flow			
23 to 100°C	6.0E-5	cm/cm/°C	
23 to 150°C	6.0E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.26	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)	30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.00		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	3.0E-3		
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Oxygen Index	30	%	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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