

Quadrant EPP Symalit PVDF 1000

Polyvinylidene Fluoride

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Symalit PVDF 1000 is a Polyvinylidene Fluoride (PVDF) product. It is available in Europe. Applications of Quadrant EPP Symalit PVDF 1000 include engineering/industrial parts, fabrics/fibers, food contact applications, industrial applications and medical/healthcare.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Crystalline

General Information	
Features	Crystalline
	Good Chemical Resistance
	Good Electrical Properties
Uses	Engineered Applications
	Industrial Applications
	Non-specific Food Applications
	Nuclear Power Applications
	Pharmaceuticals
	Textile Applications
Appearance	White
Forms	Disc
	Preformed Parts
	Rod

Physical	Nominal Value	Unit	Test Method
Density	1.79	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.010	%	
Saturation, 23°C	0.050	%	
Equilibrium, 23°C, 50% RH	0.050	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	0.030	%	
23°C, 3.00 mm ²	3.0	mg	
23°C, 3.00 mm ³	1.0	mg	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	75		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	110	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2300	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	> 20	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	32.0	MPa	
1% Strain	17.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	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)	105	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁴	150	°C	
-- ⁵	160	°C	
Melting Temperature (DSC)	175	°C	
CLTE - Flow			
23 to 100°C	1.3E-4	cm/cm/°C	
23 to 150°C	1.5E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.19	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)	18	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	7.40		
1 MHz	6.00		
Dissipation Factor			IEC 60250
100 Hz	0.025		
1 MHz	0.17		
Comparative Tracking Index	600	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	44	%	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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