

Quadrant EPP Techtron® HPV PPS

Polyphenylene Sulfide

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Techtron® HPV PPS is a Polyphenylene Sulfide (PPS) product filled with filler. It is available in Europe.

Characteristics include:

Flame Rated

Chemical Resistant

Good Dimensional Stability

Wear Resistant

General Information	
Filler / Reinforcement	Filler
Features	Good Chemical Resistance
	Good Dimensional Stability
	Good Wear Resistance
	Low Friction
	Self Lubricating
Appearance	Blue
Forms	Disc
	Preformed Parts
	Rod
	Tubing

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.010	%	
Saturation, 23°C	0.090	%	
Equilibrium, 23°C, 50% RH	0.030	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	0.030	%	
23°C, 3.00 mm ²	2.0	mg	
23°C, 3.00 mm ³	1.0	mg	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	84		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	180	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4250	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	5.0	%	ISO 527-2/1B/5

Compressive Stress			ISO 604/1
2% Strain	55.0	MPa	
1% Strain	28.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
Continuous Use Temperature			
-- 4	220	°C	
-- 5	260	°C	
Melting Temperature (DSC)	280	°C	
CLTE - Flow			
23 to 100°C	5.0E-5	cm/cm/°C	
23 to 150°C	6.0E-5	cm/cm/°C	
> 150°C	1.0E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.30	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)	24	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.30		
1 MHz	3.30		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	3.0E-3		
Comparative Tracking Index	100	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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