

Quadrant EPP Techron® PSGF PPS

Polyphenylene Sulfide

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Techron® PSGF PPS is a Polyphenylene Sulfide (PPS) product filled with 40% glass fiber. It can be processed by compression molding and is available in North America.

Characteristics include:

Flame Rated

Chemical Resistant

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Hydrocarbon Resistant		
	Solvent Resistant		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.020	%	
Saturation	0.030	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	94		
R-Scale	125		
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5030	MPa	ASTM D638
Tensile Strength (Ultimate)	34.5	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength (Yield)	159	MPa	ASTM D790
Compressive Modulus	8960	MPa	ASTM D695
Compressive Strength (10% Strain)	165	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	254	°C	ASTM D648

Maximum Use Temperature - Long Term, Air	232	°C	
Peak Crystallization Temperature (DSC)	282	°C	ASTM D3418
CLTE - Flow (-40 to 149°C)	4.5E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.30	W/m/K	ASTM F433
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹	> 1.0E+13	ohms	Internal Method
Dielectric Strength ²	15	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (3.18 mm)	V-0		UL 94
NOTE			
1.	EOS/ESD S11.11		
2.	Method A (Short-Time)		
3.	Estimated Rating		

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