Quadrant EPP BG PPS

Polyphenylene Sulfide

Quadrant Engineering Plastic Products

Message:

Quadrant EPP BG PPS is a Polyphenylene Sulfide (PPS) product. It can be processed by compression molding and is available in North America. Typical application: Engineering/Industrial Parts.
Characteristics include:
Flame Rated
Chemical Resistant

General Information			
Features	Acid Resistant Alcohol Resistant Alkali Resistant Hydrocarbon Resistant Solvent Resistant		
Uses	Bearings		
Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.52	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	93		
R-Scale	126		
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6760	MPa	ASTM D638
Tensile Strength (Ultimate)	14.5	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	5650	MPa	ASTM D790
Flexural Strength (Yield)	68.9	MPa	ASTM D790
Compressive Modulus	5520	MPa	ASTM D695
Compressive Strength (10% Strain)	103	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.20		Internal Method
Wear Factor	1600	10^-8 mm³/N·m	ASTM D3702
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	
Limiting Pressure Velocity [1]	0.876	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	282	°C	ASTM D3418
CLTE - Flow [2] (-40 to 149°C)	3.1E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.32	W/m/K	ASTM F433
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity [3]	< 1.0E+5	ohms	Internal Method
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.18 mm, Estimated Rating)	V-0		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		
3.	EOS/ESD S11.11		

Recommended distributors for this material

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