

Quadrant EPP PPS Compression

Polyphenylene Sulfide
Quadrant Engineering Plastic Products

Message:
Quadrant EPP PPS Compression is a Polyphenylene Sulfide (PPS) product. It can be processed by compression molding and is available in North America. Primary characteristic: flame rated.

General Information			
Forms	Customizable Forms		
	Disc		
	Preformed Parts		
	Rod		
	Sheet		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	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	125		
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2240	MPa	ASTM D638
Tensile Strength (Ultimate)	68.9	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength (Yield)	124	MPa	ASTM D790
Compressive Modulus	2830	MPa	ASTM D695
Compressive Strength (10% Strain)	124	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.40		Internal Method
Wear Factor	4000	10^-8 mm³/N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	121	°C	ASTM D648

Maximum Use Temperature - Long Term, Air	218	°C	
Limiting Pressure Velocity ¹	0.105	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	282	°C	ASTM D3418
CLTE - Flow ² (-40 to 149°C)	5.0E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.29	W/m/K	ASTM F433
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	> 1.0E+13	ohms	Internal Method
Dielectric Strength ⁴	21	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	1.3E-3		ASTM D150
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		
4.	Method A (Short-Time)		

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