Quadrant EPP Fluorosint® HPV

Polytetrafluoroethylene

Quadrant Engineering Plastic Products

Message:

Mica-filled PTFE provides a unique blend of strength and dimensional stability along with an excellent wear enhancing additive technology. This product provides excellent wear and stability in addition to FDA compliance.

General Information			
Filler / Reinforcement	Mica		
Additive	Lubricant		
Features	Good Dimensional Stability		
	Good Stability		
	Good Strength		
	Good Wear Resistance		
Agency Ratings	FDA Unspecified Rating		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	2.05	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.15	%	
Saturation	0.43	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	52		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1240	MPa	ASTM D638
Tensile Strength (Ultimate)	8.96	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	1140	MPa	ASTM D790
Flexural Strength (Yield)	17.2	MPa	ASTM D790
Compressive Modulus	503	MPa	ASTM D695
Compressive Strength (10% Strain,23°C)	27.6	MPa	ASTM D695
Shear Strength	17.2	MPa	ASTM D732
Coefficient of Friction (vs. Steel - Static)	0.15		Internal Method
Wear Factor	44	10^-8 mm³/N·m	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	96	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.2	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	260	°C	

Limiting Pressure Velocity [1]	0.657	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	327	°C	ASTM D3418
CLTE - Flow [2] (-40 to 149°C)	9.7E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity [3]	> 1.0E+13	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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