

Quadrant EPP Fluorosint® 500

Polytetrafluoroethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Fluorosint® 500 is a Polytetrafluoroethylene (PTFE) product filled with mica. It is available in Europe or North America. Applications of Quadrant EPP Fluorosint® 500 include engineering/industrial parts, electrical/electronic applications and sealing applications.

Characteristics include:

- Flame Rated
- Wear Resistant
- Chemical Resistant
- Creep Resistant
- Flame Retardant

General Information	
Filler / Reinforcement	Mica
Features	Flame Retardant
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Creep Resistance
	Good Dimensional Stability
	Good Electrical Properties
	Good Wear Resistance
	High Heat Resistance
	Low Friction
	Non-Abrasive
Uses	Bearings
	Bushings
	Electrical Parts
	Gaskets
	Sealing Devices
	Valves/Valve Parts
	Washer
	Wear Strip
Appearance	Ivory
Forms	Customizable Forms
	Disc
	Preformed Parts
	Rod
	Sheet
	Tubing

Physical	Nominal Value	Unit	Test Method
Density	2.32	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.10	%	
Saturation, 23°C	3.0	%	
Water Absorption ¹ (23°C, 3.00 mm)	14.0	mg	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 10.0 mm)	55		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	8.00	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	10	%	ISO 527-2/1B/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	130	°C	ISO 75-2/A
Continuous Use Temperature			
-- ²	260	°C	
-- ³	280	°C	
Melting Temperature (DSC)	327	°C	
CLTE - Flow			
23 to 100°C	4.5E-5	cm/cm/°C	
23 to 150°C	4.5E-5	cm/cm/°C	
> 150°C	6.0E-5	cm/cm/°C	
Thermal Conductivity	0.77	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+12	ohms · cm	IEC 60093
Electric Strength (1.00 mm)	11	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.85		IEC 60250
Dissipation Factor (1 MHz)	8.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	> 95	%	ISO 4589-2
NOTE			
1.	Weight, 24 hrs		
2.	20000 hrs		

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