

Quadrant EPP Fluorosint® 207

Polytetrafluoroethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Fluorosint® 207 is a Polytetrafluoroethylene (PTFE) product filled with mica. It can be processed by compression molding and is available in Europe or North America. Applications of Quadrant EPP Fluorosint® 207 include engineering/industrial parts, sealing applications and food contact applications.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Creep Resistant
- Good Dimensional Stability
- Heat Resistant

General Information	
Filler / Reinforcement	Mica
Features	Good Chemical Resistance
	Good Creep Resistance
	Good Dimensional Stability
	Good Electrical Properties
	Good Wear Resistance
	High Heat Resistance
	Low Friction
Uses	Bearings
	Bushings
	Gaskets
	Sealing Devices
	Seals
	Valves/Valve Parts
	Washer
	Wear Strip
Agency Ratings	FDA 21 CFR 175.300
Appearance	White
Forms	Customizable Forms
	Disc
	Preformed Parts
	Rod
	Sheet
	Tubing
Processing Method	Compression Molding

Physical	Nominal Value	Unit	Test Method
Density	2.30	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.030	%	
Saturation, 23°C	2.0	%	
Water Absorption ¹ (23°C, 3.00 mm)	4.0	mg	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 10.0 mm)	50		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	10.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	50	%	ISO 527-2/1B/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	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)	100	°C	ISO 75-2/A
Continuous Use Temperature			
-- ²	260	°C	
-- ³	280	°C	
Melting Temperature (DSC)	327	°C	
CLTE - Flow			
--	1.0E-4	cm/cm/°C	ASTM D696
23 to 100°C	1.0E-4	cm/cm/°C	
23 to 150°C	1.0E-4	cm/cm/°C	
> 150°C	1.4E-4	cm/cm/°C	ISO 11359-2
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)	8.0	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.65		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		
3.	Short periods		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

