

Quadrant EPP Semitron® ESd 500HR

Polytetrafluoroethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Semitron® ESd 500HR is a Polytetrafluoroethylene (PTFE) product filled with mica. It is available in Europe.

Characteristics include:

Flame Rated

Antistatic

Chemical Resistant

Good Dimensional Stability

Heat Resistant

General Information			
Filler / Reinforcement	Mica		
Additive	Antistatic		
Features	Antistatic		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	High Heat Resistance		
	Low Friction		
Appearance	White		
Forms	Disc		
	Preformed Parts		
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			
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	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 to 1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+10 to 1.0E+12	ohms·cm	IEC 60093
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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