

Quadrant EPP Semitron® ESd 520HR

Polytetrafluoroethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Semitron® ESd 520HR is a Polytetrafluoroethylene (PTFE) product filled with mica. It is available in Europe. Typical application: Electrical/Electronic Applications.

Characteristics include:

- Flame Rated
- Antistatic
- Heat Resistant
- High Strength

General Information	
Filler / Reinforcement	Mica
Additive	Antistatic
Features	Antistatic
	Good Electrical Properties
	High Heat Resistance
	High Strength
Uses	Electrical Parts
Appearance	Grey
Forms	Disc
	Preformed Parts

Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr, 3.00 mm)	0.60	%	ISO 62
Water Absorption ¹ (23°C, 3.00 mm)	56.0	mg	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	108		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	83.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1B/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	280	°C	ISO 75-2/A
Continuous Use Temperature			
-- ²	250	°C	

-- ³	270	°C	
Glass Transition Temperature	280	°C	
CLTE - Flow			
23 to 100°C	2.5E-5	cm/cm/°C	
23 to 150°C	2.5E-5	cm/cm/°C	
> 150°C	2.5E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.36	W/m/K	
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	48	%	ISO 4589-2
NOTE			
1.	Weight, 24 hrs		
2.	20000 hrs		
3.	Short periods		

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