

Quadrant EPP Semitron® ESd 225

Acetal (POM) Homopolymer
Quadrant Engineering Plastic Products

Message:

Quadrant EPP Semitron® ESd 225 is an Acetal (POM) Homopolymer product. It is available in Europe. Typical application: Electrical/Electronic Applications.
Characteristics include:
Flame Rated
Antistatic

General Information			
Additive	Antistatic		
Features	Antistatic		
	Good Electrical Properties		
Uses	Electrical/Electronic Applications		
Appearance	Beige		
Forms	Disc		
	Preformed Parts		
	Rod		

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	5.0	%	
Saturation, 23°C	10	%	
Equilibrium, 23°C, 50% RH	0.80	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	9.0	%	
23°C, 3.00 mm ²	705.0	mg	
23°C, 3.00 mm ³	392.0	mg	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 10.0 mm)	106		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	70.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	38.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	15	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	20.0	MPa	
1% Strain	11.0	MPa	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	
Continuous Use Temperature			
-- 4	90.0	°C	
-- 5	140	°C	
Melting Temperature (DSC)	165	°C	
CLTE - Flow (23 to 100°C)	1.5E-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 (3.00 mm)	HB		UL 94
Oxygen Index	< 20	%	ISO 4589-2
NOTE			
1.	96 hrs		
2.	Weight, 96 hrs		
3.	Weight, 24 hrs		
4.	20000 hrs		
5.	Short periods		

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