

SUPREME Specialty PS SP566

Ignition Resistant Polystyrene

Supreme Petrochem Ltd.

Message:

Flame Retardant Polystyrene (FR-HIPS)
Characteristics:
Ignition Resistant UL94 "V0" rated
Good Flow and Toughness
Available in dark color
Free of DBDPO, PBDE & TBBA, Complies with RoHS directive of EU
Processing:
Molding
Extrusion
Applications:
TV Cabinets
Electrical appliance parts, Business machines
Sheets for mass transit furnishing.

General Information			
Additive	Flame retardancy		
Features	Good liquidity		
	Good toughness		
	Flame retardant		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Home appliance components		
	Sheet		
	Business equipment		
	Shell		
Agency Ratings	EU Unspecified Rating		
RoHS Compliance	RoHS compliance		
UL File Number	E185934		
Appearance	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	28.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	40	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1800	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	35.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	80.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525 ³
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (3.20 mm)	1.0E+14	ohms	IEC 60093
Volume Resistivity (3.20 mm)	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant (23°C, 3.20 mm, 1 MHz)	2.60		IEC 60250
Dissipation Factor (23°C, 3.20 mm, 1 MHz)	4.0E-4		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Additional Information			
Surface Resistivity, IEC 60093, 23°C, 3.2mm: > 1E14 ohmsVolume Resistivity, IEC 60093, 23°C, 3.2mm: > 1E16 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	60.0 - 80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	250	°C	
Mold Temperature	40.0 - 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0 - 80.0	°C	
Drying Time	2.0	hr	
Melt Temperature	250	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	标准 B (120°C/h), 压力1 (10N)		

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