SUPREME Specialty PS SP564

Ignition Resistant Polystyrene

Supreme Petrochem Ltd.

Message:

Flame Retardant Polystyrene (FR-HIPS)
Characteristics:
Ignition Resistant UL94 "V0" rated.
Excellent Flow Properties
Free of DBDPO, PBDE & TBBA, complies with RoHS directive of EU
Processing:
Molding
Gas Assist Molding
Applications:
Large size TV cabinets
VCR cabinets
Electrical boxes, electrical appliance parts
Business Machine Parts requiring long flow paths

General Information			
Additive	Flame retardancy		
Features	High liquidity Flame retardant Flame retardancy		
Uses	Electrical/Electronic Applications Home appliance components Business equipment Shell		
Agency Ratings	EU Unspecified Rating		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.15	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	20	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (23°C, 3.20 mm, Injection Molded)	25.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 23°C, 3.20 mm, Injection Molded)	35	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1850	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	38.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	78.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525 [3]
Ball Indentation Temperature	75.0	°C	IEC 60598-1
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			
The value listed as Ball Indent Temp, IEC 60598-1 was tested in accordance with IEC335-1.Surface Resistivity, IEC 60093, 3.2mm: >1E14 ohmsVolume Resistivity, IEC 60093, 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	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	标准 B (120°C/h), 压 力1 (10N)		

Recommended distributors for this material

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