SUPREME Specialty PS SP553

Ignition Resistant Polystyrene

Supreme Petrochem Ltd.

Message:

Flame Retardant Polystyrene (FR-HIPS)
Characteristics:
Ignition Resistant UL94 "V2" rated
High Flow Properties
Good Balance of Toughness and Rigidity
Available in dark color
Incorporating DBDPO
Processing:
Molding
Gas Assist Molding
Applications:
TV cabinets, VCR cabinets
Electrical boxes, electrical appliance parts

General Information			
UL YellowCard	E185934-226966		
Additive	Flame Retardancy 3		
Features	Impact resistance, high High liquidity Thermal stability, good Good toughness Medium hardness Flame retardant Flame retardancy		
Uses	Electrical/Electronic Applications Home appliance components Shell		
UL File Number	E185934		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.12	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	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)	40	%	ASTM D638

Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1900	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	40.0	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)	81.0	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525 [3]
Ball Indentation Temperature	82.0	°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-2		UL 94
Glow Wire Ignition Temperature (1.60 mm)	850	°C	IEC 60695-2-13
Additional Information			
The value listed as Ball Indent Temp, IEC 60598-1 was tested in accordance with IEC335-1.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	
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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