

SUPREME Specialty PS SP554

Ignition Resistant Polystyrene

Supreme Petrochem Ltd.

Message:

Flame Retardant Polystyrene

Characteristics:

Ignition Resistant UL94 "V0" rated

Excellent Flow Properties

Good Balance of Toughness and Rigidity

Incorporating DBDPO

Processing:

Molding

Gas Assist Molding

Applications:

Large size TV Cabinets

VCR cabinets

Electrical boxes, electrical appliance parts

Business machines

General Information			
Additive	Flame retardancy 2		
Features	High liquidity		
	Good toughness		
	Medium hardness		
	Flame retardant		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Home appliance components		
	Business equipment		
	Shell		
UL File Number	E185934		
Forms	Particle		
Processing Method	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)	15	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	23.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	30	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1800	MPa	ASTM D790

Flexural Strength (23°C, 3.20 mm, Injection Molded)	36.0	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)	79.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°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 (2.00 mm)	V-0		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 IEC 335-1.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)		

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