

SUPREME Specialty PS SP556

Ignition Resistant Polystyrene

Supreme Petrochem Ltd.

Message:

Flame Retardant Polystyrene (FR-HIPS)

Characteristics:

Ignition Resistant UL94 "V0" rated

Good Flow Properties

Good Balance of Toughness And Rigidity

Available in dark colors

Incorporating DBDPO

Processing:

Molding

Extrusion

Applications:

TV cabinets, computer monitor, printer housing

Electrical switch boards, MCB distribution boxes, electrical gang boxes, thermostat housing

Extruded sheets can be used for lining in mass transit system and for forming appliances bodies

General Information			
UL YellowCard	E185934-226969		
Additive	Flame Retardancy 3		
Features	Good liquidity		
	Good toughness		
	Medium hardness		
	Flame retardant		
	Flame retardancy		
Uses	Computer components		
	Electrical/Electronic Applications		
	Home appliance components		
	Sheet		
	Shell		
UL File Number	E1859		
Appearance	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	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)	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)	38.0	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	103	°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
Comparative Tracking Index (3.20 mm)	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Ignition Temperature (1.60 mm)	960	°C	IEC 60695-2-13
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

