

SUPREME Specialty PS SP555

Ignition Resistant Polystyrene

Supreme Petrochem Ltd.

Message:

Flame Retardant Polystyrene (FR-HIPS)

Characteristics:

Ignition Resistant UL94 "V0" rated.

Very Good Flow Properties

Good Balance of Toughness and Rigidity

Available in all colours

Incorporating DBDPO

Processing:

Molding

Applications:

Large size TV cabinets

VCR cabinets

Electrical boxes, electrical appliance parts

Business Machines

General Information			
UL YellowCard	E185934-226968		
Additive	Flame Retardancy 3		
Features	Good liquidity		
	Good toughness		
	Medium hardness		
	Flame retardant		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	TV housing		
	Home appliance components		
	Business equipment		
	Shell		
UL File Number	E185934		
Appearance	Available colors		
Forms	Particle		
Processing Method	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)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	26.0	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)	1900	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, 3.20 mm, Injection Molded)	80.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°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	
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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