

SUPREME Specialty PS SP201 4551

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SP201 4551 is a general-purpose polystyrene product. It can be processed by extrusion and is available in North America, Africa and the Middle East, Europe or Asia Pacific. The application fields of SUPREME Specialty PS SP201 4551 include thin plates, food contact applications and lighting equipment.

Features include:

flame retardant/rated flame

High stiffness

high strength

Heat resistance

Transparency

General Information			
Additive	UV stabilizer		
Features	Rigidity, high		
	High strength		
	Heat resistance, high		
	Definition, high		
Uses	Sheet		
	Profile		
	Lighting device		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	53.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	2.5	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	3000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	99.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	87.0	°C	ASTM D648
Vicat Softening Temperature	106	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (1000 µm)	88.0	%	ASTM D1003
Haze (1000 µm, Injection Molded)	1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	< 250	°C	
Mold Temperature	40.0 - 60.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	< 250	°C	
Extrusion instructions			
Mold Temp: 40 to 60°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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