

# SUPREME Specialty PS SPEXP44

Specialty Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SPEXP44 is a special polystyrene product. It can be processed by extrusion and is available in North America, Africa and the Middle East, Europe or Asia Pacific. Typical application areas are: electrical/electronic applications.

Features include:

flame retardant/rated flame

Good toughness

Good flexibility

Transparency

General Information			
Features	Antistatic property		
	Good liquidity		
	Good flexibility		
	Definition, high		
	Good toughness		
Uses	Electrical/Electronic Applications		
	Profile		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm <sup>3</sup>	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 <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	35.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)	10	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1700	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	15	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	74.0	°C	ASTM D648
Vicat Softening Temperature	94.0	°C	ASTM D1525 <sup>3</sup>

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Flammability	Nominal Value	Unit	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)	1.2	%	ASTM D1003

#### Additional Information

Surface Resistivity, ASTM D257, 23°C, 3.2 mm, injection molded: > 1E12 ohms

Extrusion	Nominal Value	Unit
Drying Temperature	60.0 - 80.0	°C
Drying Time	2.0	hr
Melt Temperature	< 220	°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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#### Recommended distributors for this material

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