

# SUPREME Specialty PS SP243

Specialty Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SP243 is a special polystyrene product. It can be processed by extrusion or injection molding and is available in North America, Africa and the Middle East, Europe or Asia Pacific. The application fields of SUPREME Specialty PS SP243 include movies, hats/caps/corks, containers and food contact applications.

Features include:

flame retardant/rated flame

Good stiffness

Good toughness

Good flexibility

Transparency

General Information	
Features	Rigid, good
	Good flexibility
	Definition, high
	Good toughness
Uses	Directional film
	Cover
	Thermoformed container
Agency Ratings	FDA 21 CFR 177.1640
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm <sup>3</sup>	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 <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	425	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)	5.0	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	22000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	600	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	15	J/m	ASTM D256

Unnotched Izod Impact (23°C, 3.20 mm)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	81.0	°C	ASTM D648
Vicat Softening Temperature	103	°C	ASTM D1525 <sup>3</sup>
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)	2.5	%	ASTM D1003

#### Additional Information

The values listed as Haze and Transmittance ASTM D1003, were tested in accordance with SPL testing methods.

Injection	Nominal Value	Unit
Processing (Melt) Temp	< 220	°C
Mold Temperature	40.0 - 50.0	°C
Extrusion	Nominal Value	Unit
Melt Temperature	< 220	°C

#### Extrusion instructions

Mold Temp: 40 to 50°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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