

# SUPREME Specialty PS SP255

Specialty Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SP255 is a special polystyrene product. It can be processed by extrusion, thermoforming or injection molding, and is available in North America, Africa and the Middle East, Europe or the Asia-Pacific region. The application fields of SUPREME Specialty PS SP255 include thin plates, containers, food contact applications and medical/health care.

Features include:

flame retardant/rated flame

high liquidity

high strength

Good toughness

Good flexibility

General Information	
Features	High strength
	Good flexibility
	High liquidity
	Definition, high
	Good toughness
Uses	Sheet
	Thermoformed container
	Medical/nursing supplies
Agency Ratings	FDA 21 CFR 177.1640
Forms	Particle
Processing Method	Extrusion
	Thermoforming
	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)	6.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	400	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)	22000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	77.0	°C	ASTM D648
Vicat Softening Temperature	102	°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
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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

