

SUPREME GPPS SC206

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

General Purpose Polystyrene (GPPS)

Characteristics:

Good Flow Grade

Excellent Clarity & Shine

Good Strength & Excellent Processability

Processing:

Molding

Applications:

Crystal ware, paper weights, Houseware

Beads, bangles, gift articles, trays, combs

Medical applications like sample collectors, PS bottles, test tubes, petri dishes

General Information

Features	Crystal Food Contact Acceptable General Purpose Good Flow Good Processability Good Strength High Clarity High Gloss
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Uses	Bottles General Purpose Household Goods Labware Medical/Healthcare Applications Support Trays
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Agency Ratings	FDA 21 CFR 177.1640
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Forms	Pellets
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Processing Method	Injection Molding
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Physical	Nominal Value	Unit	Test Method
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Specific Gravity	1.04	g/cm ³	ASTM D792
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Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	12	g/10 min	ASTM D1238
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	48.0	MPa	ASTM D638
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Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	2.0	%	ASTM D638
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Flexural Modulus (23°C, 3.20 mm, Injection Molded)	3100	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	76.0	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, Injection Molded)	81.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	40.0 to 60.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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