

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		
Uses	Bottles		
	General Purpose		
	Household Goods		
	Labware		
	Medical/Healthcare Applications		
	Support Trays		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
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)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	48.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	2.0	%	ASTM D638

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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