

SUPREME GPPS SC208

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

General Purpose Polystyrene (GPPS)

Characteristics:

Tintless

High Flow Grade

Good Clarity & Shine

Excellent Processability

Processing:

Molding

Extrusion

Applications:

Blended with HIPS for hangers

Hand molding applications like novelty items, toys

Low profile additive in SMC and DMC applications

Co-extrusion of glossy cap layer on HIPS sheets

Carrier for Masterbatches compounding

General Information			
Features	Food Contact Acceptable		
	General Purpose		
	Good Processability		
	High Flow		
	Medium Clarity		
	Medium Gloss		
Uses	Compounding		
	General Purpose		
	Sheet		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Compounding		
	Extrusion		
	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)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	44.0	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)	3000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	73.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	18	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	78.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°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	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 260	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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