

SUPREME GPPS SC202E

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

General Purpose Polystyrene (GPPS)

Characteristics:

Good Melt Strength

High Heat Grade

Excellent Processability

Processing:

Extrusion

Molding

Applications:

Ideal for XPS insulation boards and XPS food packaging

Applications like food trays, lunch boxes (hinged), instant noodle containers, clamshells and bowls

Suitable for profile, extrusion & embossed sheets

Disposable pipette, tablet packaging bottles, ampoule tray, caps & closures

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Processability		
	High Heat Resistance		
Uses	Bottles		
	Caps		
	Closures		
	Foamed Insulation Board		
	Food Containers		
	Profiles		
	Sheet		
	Support Trays		
	Toothbrush Handles		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	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)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	52.0	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)	2800	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	92.0	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)	86.0	°C	ASTM D648
Vicat Softening Temperature	105	°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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