SUPREME GPPS SC201E

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

General Purpose Polystyrene (GPPS)
Characteristics:
Very High Molecular Weight
High Heat Grade
High Melt Strength
Good Clarity and Mechanical Strength
Processing:
Extrusion
Molding
Applications:
OPS (oriented polystyrene sheets)
Extruded embossed sheets
Food and medical applications like disposable pipette, tablet packing bottles, ampoule trays, caps & closures.

General Information	
Features	Disposable
	Food Contact Acceptable
	Good Melt Strength
	Good Strength
	High Heat Resistance
	High Molecular Weight
	Medium Clarity
Uses	Bottles
	Caps
	Closures
	Medical/Healthcare Applications
	Non-specific Food Applications
	Sheet
	Support Trays
Agency Ratings	FDA 21 CFR 177.1640
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.5	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (23°C, 3.20 mm, Injection Molded)	53.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 23°C, 3.20 mm, Injection Molded)	2.5	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	3000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	99.0	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)	87.0	°C	ASTM D648
Vicat Softening Temperature	106	°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)		

Recommended distributors for this material

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