

SUPREME GPPS SC202LV

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

General Purpose Polystyrene (GPPS)

Characteristics:

High Strength Grade

Medium Flow, High Toughness

Excellent Processability

Processing:

Injection Molding

Applications:

Ball pen barrels, geometrical instruments, etc.

CD Jewel boxes, audio cassettes, houseware, flow vases & injection blow molded bottles

Medical products like disposables, petri dish, tissue, culture dishes, cap jars, droppers

General Information

UL YellowCard	E185934-226959
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Features	Disposable
	Good Processability
	Good Toughness
	High Strength
	Medium Flow

Uses	Audio Tapes
	Blow Molding Applications
	Bottles
	Household Goods
	Medical/Healthcare Applications
	Stationary Supplies

Agency Ratings	FDA 21 CFR 177.1640
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UL File Number	E189534
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Forms	Pellets
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Processing Method	Injection Blow Molding
	Injection Molding

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)	4.5	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
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2900	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	80.0	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)	79.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°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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