

SUPREME GPPS SC201LV

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

General Purpose Polystyrene

Characteristics:

High Molecular Weight Grade

Medium Heat, Good Toughness

Good Flow Properties along with Good Mechanical Strength

Easy processability with Good Mold Release Properties.

Processing:

Molding

Applications:

Suitable for large volume clear molded products.

Refrigerator componenets like crisper trays, egg shells etc.

tooth brush, tooth brush containers, lay flat boxes, ball pen barrels, geometrical appliances etc.

General Information			
Additive	Mold Release		
Features	Food Contact Acceptable		
	Good Flow		
	Good Mold Release		
	Good Processability		
	Good Strength		
	Good Toughness		
	High Molecular Weight		
	Medium Heat Resistance		
Uses	Appliances		
	Containers		
	Packaging		
	Toothbrush Handles		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Clear/Transparent		
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)	2.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	49.0	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)	2700	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	82.0	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)	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	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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