

SUPREME GPPS SC203EL

General Purpose Polystyrene

Supreme Petrochem Ltd.

Message:

General Purpose Polystyrene (GPPS)

Characteristics:

Medium Flow Grade with Good Mechanical properties

Improves Productivity due to Good Balance of Flow, Heat and Mold Release Properties

Processing:

Molding

Applications:

Audio cassette housing & covers

Medical applications like disposable infusion trays, screw vials

Crystal wares, mugs, trays, bowls, pen stands, fruit bowls, service trays, thin walled cups

Ideal for glossy cap layer on HIPS sheets

General Information			
UL YellowCard	E185934-226960		
Additive	Mold Release		
Features	Disposable		
	Food Contact Acceptable		
	Good Flow		
	Good Mold Release		
	Medium Heat Resistance		
Uses	Audio Tapes		
	Food Containers		
	Housings		
	Labware		
	Medical/Healthcare Applications		
	Sheet		
	Stationary Supplies		
Support Trays			
Agency Ratings	FDA 21 CFR 177.1640		
UL File Number	E189534		
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)	8.0	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)	2900	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)	80.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°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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