

SUPREME Specialty PS SP6432 9690

Medium Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SP6432 9690 is a Medium Impact Polystyrene product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of SUPREME Specialty PS SP6432 9690 include appliances and food contact applications.

Characteristics include:

- Flame Rated
- Good Toughness
- High Flow

General Information			
Features	Good Toughness High Flow		
Uses	Appliance Components		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Colors Available		
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)	14	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	28.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	35	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2150	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	77.0	°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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