

SUPREME Specialty PS SP731 9920

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

Specialty grade containing Silicone Oil to provide wear resistance and high opacity.

General Information			
Additive	Silicone Lubricant		
Features	Good Flow		
	Good Wear Resistance		
Uses	Camera Applications		
Agency Ratings	FDA Unspecified Rating		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	25.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	50	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	41.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	81.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°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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