

SureSpec HP-007

High Melt Strength Polypropylene

Genesis Polymers

Message:

HP-007 is a Polypropylene certified prime grade designed for specialty applications requiring superior tensile strength and toughness. HP-007 combines excellent processability with high degree of thermal stabilization, high melt strength and outstanding mechanical properties of end-products. HP-007 recommended processing temperature is between 210° to 230°C. HP-007 complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food.

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Processability		
	Good Thermal Stability		
	High Tensile Strength		
	Ultra High Toughness		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.907	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1690	MPa	ASTM D638
Tensile Strength ¹ (Yield)	37.2	MPa	ASTM D638
Tensile Elongation ² (Yield)	60	%	ASTM D638
Flexural Modulus - 1% Secant ³	1690	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	114	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 230	°C	
NOTE			
1.	50 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		

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