SureSpec HP-700

Polypropylene Homopolymer

Genesis Polymers

Message:

HP700 is a Polypropylene certified prime resin developed for injection molding and compounding general purpose applications. HP700 offers excellent high melt flow and easy processability. HP700 processing temperature is 220° to 240°C with mold at 20°- 50°C. HP700 complies with FDA regulation 21CFR 177.1520 (c)1.1a concerning the Polypropylene use in contact with food articles.

General Information	
Features	Homopolymer Workability, good High liquidity Compliance of Food Exposure General
Uses	Composite General
Agency Ratings	FDA 21 CFR 177.1520(c) 1.1a
Forms	Particle
Processing Method	Composite Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.904	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	70	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	104		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	36.5	MPa	ASTM D638
Tensile Elongation [2] (Yield)	8.5	%	ASTM D638
Flexural Modulus - 1% Secant [3]	1450	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	16	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	98.0	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525
Additional Information			
Test made on injection molded Type 1 tension test specimen according to ASTM D2146			

Injection	Nominal Value	Unit
Processing (Melt) Temp	220 - 240	°C
Mold Temperature	20.0 - 50.0	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	

Recommended distributors for this material

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