

SureSpec HP-040

High Melt Strength Polypropylene

Genesis Polymers

Message:

HP-040 is a Polypropylene certified prime grade designed for extrusion of profile and cast film applications. HP-040 combines excellent processability and high degree of thermal stabilization, with good melt strength, high tensile strength and good fibrillation tendency. HP-040 recommended processing temperature is between 210° to 230°C. HP-040 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		
Uses	Cast Film		
	Profiles		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Cast Film		
	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	35.2	MPa	ASTM D638
Tensile Elongation ² (Yield)	11	%	ASTM D638
Flexural Modulus - 1% Secant ³	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	98.0	°C	ASTM D648
Vicat Softening Temperature	151	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	210 to 230	°C	

NOTE

1.	50 mm/min
2.	50 mm/min
3.	1.3 mm/min

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