

SureSpec HP-080

Polypropylene Homopolymer

Genesis Polymers

Message:

HP-080 is a Polypropylene certified prime grade designed for Film EXTRUSION by Tubular Water Quench - TWQ - process. HP-080 combines excellent processability and good melt thermal stability, with films exhibiting clarity, good impact strength, modulus, good barrier to fats and oils, and good chemical resistance. HP-080 recommended processing temperature is between 210° to 230°C. HP-080 complies with FDA regulation 21CFR 177.1520 (a)(1) (b) (c)1.1, and most international regulations concerning Polypropylene use in contact with food articles.

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Processability		
	Good Thermal Stability		
	High Clarity		
	Homopolymer		
Uses	Film		
Agency Ratings	FDA 21 CFR 177.1520(a) 1		
	FDA 21 CFR 177.1520(b)		
	FDA 21 CFR 177.1520(c) 1.1		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - 1% Secant ¹	1380	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Secant Modulus ²			ASTM D882
1% Secant, MD : 32 µm	689	MPa	
1% Secant, TD : 32 µm	689	MPa	
Tensile Strength			ASTM D882
MD : Break	55.2	MPa	
TD : Break	37.9	MPa	
Tensile Elongation			ASTM D882
MD : Break	500	%	
TD : Break	550	%	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	102	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Gloss ³ (45°, 31.8 µm, Blown Film)	85		ASTM D2457
Haze ⁴ (31.8 µm, Blown Film)	2.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	210 to 230	°C	
NOTE			

- | | |
|----|---|
| 1. | 1.3 mm/min |
| 2. | 1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1 |
| 3. | 1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1 |
| 4. | 1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1 |

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