

# SureSpec HD60-800

High Density Polyethylene

Genesis Polymers

Message:

HD60-800 is a certified prime grade designed for INJECTION MOLDING of large sized industrial applications requiring high Stiffness, good Toughness and good Impact strength. HD60-800 features easy processability, excellent dimensional stability, and high Warpage resistance. HD60-800 recommended processing temperature is 220 to 250°C. with mold @ 20 to 40°C.. HD60-800 complies with FDA regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Good dimensional stability Rigidity, high High density Bending resistance Impact resistance, good Workability, good Good toughness Compliance of Food Exposure		
Uses	Industrial application		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.963	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, molded, F50)	3.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	32.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	600	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.0	°C	ASTM D648
Additional Information			
Test Made on injection molded Type 1 tension test specimen according to ASTM D2146			
Injection	Nominal Value	Unit	

Processing (Melt) Temp	220 - 250	°C
Mold Temperature	20.0 - 40.0	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	

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Recommended distributors for this material

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