

# SureSpec HD60-70

High Density Polyethylene

Genesis Polymers

## Message:

HD60-70 is a Phillips Process Blow Molding certified prime grade designed for containers for packaging of non-aggressive chemicals. HD60-70 features low to medium swell, easy processability in conventional continuous extrusion equipment, good ESCR, good Impact strength, high Stiffness, improved Barrier, and low Odor and Taste. HD60-70 processing temperature is 140 to 165°C., with mold 10 to 30°C. HD60-70 complies with FDA regulation 21CFR 177.520 (c) 3.1(a) + 3.2(a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Rigidity, high High ESCR (Stress Cracking Resistance) High density Impact resistance, good Workability, good The smell is low to none The smell is low to none Compliance of Food Exposure Barrier resin		
Uses	Container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow molding Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, molded, F50)	15.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	31.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	710	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	189	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Additional Information	Nominal Value	Unit	
Blow Molding Mold Temperature	10 - 30	°C	
Blow Molding Temperature	140 - 165	°C	
Test Made on injection molded Type 1 tension test specimen according to ASTM D2146			
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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