

# SureSpec HD55-30

High Density Polyethylene

Genesis Polymers

Message:

HD55-30 is a Phillips Process Blow Molding copolymer certified prime grade designed to meet end-use requirements of containers for packaging of Household Industrial Chemicals (HIC). HD55-30 features medium swell, easy and consistent processability in conventional continuous or intermittent extrusion equipment, and excellent balance of bottle ESCR, Impact strength and Stiffness. HD55-30 recommended processing temperature is 160 to 180°C., with mold at 10 to 30°C. HD55-30 complies with FDA regulation 21CFR 177.1520 (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	Rigid, good High ESCR (Stress Cracking Resistance) High density Copolymer Impact resistance, good Workability, good Compliance of Food Exposure		
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	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, molded, F50)	50.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	26.9	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	> 700	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	206	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648

Additional Information	Nominal Value	Unit
Blow Molding Mold Temperature	10 - 30	°C
Blow Molding Temperature	160 - 180	°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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