

SureSpec HD45-30

High Density Polyethylene

Genesis Polymers

Message:

HD45-30 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). HD45-30 features easy and consistent processability in conventional continuous or intermittent extrusion equipment. It also offers exceptional ESCR and Impact strength. HD45-30 recommended melt temperature is 180 to 200°C, with the mold at 10 to 20°C. HD45-30 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	High ESCR (Stress Cracking Resistance) High density Copolymer Impact resistance, high Workability, good Compliance of Food Exposure		
Uses	Container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow molding Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Compression Molded, F50)	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	24.1	MPa	ASTM D638
Tensile Elongation ² (Break)	900	%	ASTM D638
Flexural Modulus ³	1040	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	231	kJ/m ²	ASTM D1822
Additional Information	Nominal Value	Unit	
Blow Molding Mold Temperature	10 - 20	°C	
Test Made on injection molded Type 1 tension test specimen according to ASTM D2146			
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 200	°C	
NOTE			

1.	51 mm/min
2.	50 mm/min
3.	1.3 mm/min

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