

HD55-30 High Density Polyethylene

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.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
PHYSICAL			
Melt Flow Rate (190 °C, 2.16kg)	D1238	g/10 min	0.35
Density	D1505	g/cm ³	0.954
HDT Under Load (66 psi Unannealed)	D648	°F	165
Environmental Stress-Cracking Resistance (122 °F, Compression, F50)	D1693	hr	50
MECHANICAL			
Flexural Modulus ¹ - 1% Secant	D790	psi	195k
Tensile Strength @ Yield ²	D638	psi	3900
Tensile Impact Strength	D1822	ft-lb/in ²	98
Elongation @ Break ²	D638	%	> 700

Typical Value of Properties not to be construed as specifications

* Test Made on injection molded Type 1 tension test specimen according to ASTM D2146

1 - @ 0.051 in/min

2 - @ 2 in/min.



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