

# HD45-30

## High Density Polyethylene

**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.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
<b>PHYSICAL</b>			
Melt Flow Rate (190 ° C, 2.16kg)	D1238	g/10 min	0.35
Density	D1505	g/cm <sup>3</sup>	0.945
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup>	D790A	psi	151k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	3500
Elongation @ Break <sup>2</sup>	D638	%	900
Tensile Impact Strength	D1822	ft. lb/in <sup>2</sup>	110
Stress Crack Resistance (Comp. Mold F50)	D1693B	hr	> 1000

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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