

# HD55-30A

## High Density Polyethylene

**HD55-30A** is a certified prime grade Phillips Process BLOW MOLDING copolymer designed to meet end-use requirements of containers for packaging of Household Industrial Chemicals (HIC). **HD55-30A** contains antistatic and features medium swell, easy consistent processability in conventional continuous or intermittent extrusion equipment, and excellent balance of bottle ESCR, impact strength and stiffness. **HD55-30A** recommended processing temperature is 160 to 180°C, with mold at 10 to 30°C. Mold temperature is 50.0 to 86.0 °F and Melt temperature is 320 to 356 °F.

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>	0.954
HDT Under Load (66 psi Unannealed)	D648	°F	165
Environmental Stress-Cracking Resistance (122 °F, Compression, F50)	D1693	hr	50
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup> - 1% Secant	D790	psi	195k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	3900
Tensile Impact Strength	D1822	ft-lb/in <sup>2</sup>	98
Elongation @ Break <sup>2</sup>	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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