

# HD54-05

## High Density Polyethylene

**HD54-05** is a High Molecular Weight Hexene certified prime copolymer developed for blow molding of high performance medium to large size industrial containers. **HD54-05** features High-Swell, consistent processability, outstanding combination of ESCR, Impact strength, Stiffness, Creep resistance, and excellent chemical resistance. **HD54-05** recommended processing temperature is 210 to 230°C.. **HD54-05** 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.

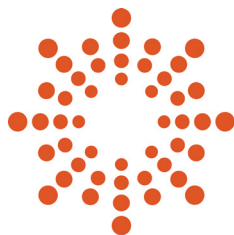
PROPERTIES	ASTM	UNIT	NOMINAL VALUES
<b>PHYSICAL</b>			
Melt Flow Rate (HLMI, 190 °C, 21.6kg)	D1238	g/10 min	5.5
Density	D1505	g/cm <sup>3</sup>	0.954
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup>	D790	psi	195k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	4200
Elongation @ Break <sup>2</sup>	D638	%	800
Tensile Impact Strength	D1822	ft. lb/in <sup>2</sup>	215
Stress Crack Resistance (122 °F Comp. Mold F50)	D1693B	hr	>1000
HDT Under Load (66 psi unannealed)	D746	°F	103

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.



**Genesis  
Polymers**

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