

# HD51-06

## High Density (HMW) Polyethylene

**HD51-06** is a Hexene copolymer High Molecular Weight certified prime resin developed for blow molding of high performance medium to large size industrial containers. **HD51-06** features good processability, good melt strength, excellent combination of ESCR, high Impact strength, Stiffness, good Thermoform ability, and good chemical resistance. HD51-06 recommended processing temperature is 190 to 210°C.. **HD51-06** 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
<b>PHYSICAL</b>			
Melt Flow Rate (190 ° C, 2.16kg)	D1238	g/10 min	0.06
Density	D1505	g/cm <sup>3</sup>	0.951
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup>	D790	psi	155000
Tensile Strength @ Yield <sup>2</sup>	D638	psi	3600
Elongation @ Break <sup>2</sup>	D638	%	800
Tensile Impact Strength	D1822	ft. lb/in <sup>2</sup>	165
HDT Under Load (264 psi, unannealed)	D648	° F	111

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 - @ 0.51 in/min

2 - @ 2 in/min.



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