

HD50-12

High Density (HMW) Polyethylene

HD50-12 is a High Molecular Weight polyethylene copolymer certified prime grade developed for blow molding and thermoforming of high performance large size industrial parts. **HD50-12** features good processability, good melt strength and rigidity, excellent combination of low temperature Impact strength and chemical resistance.

HD50-12 recommended processing temperature is 190 to 210°C. **HD50-12** complies with FDA regulation 21CFR 177.1520(c) 3.1a + 3.2a (conditions of use B through H) 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	<0.12
Density	D1505	g/cm ³	0.948
Env. Stress Cracking Resistance (10% Igepal)	D1693B	hr	>600
MECHANICAL			
Flexural Modulus	D790	psi	175k
Tensile Strength @ Yield ²	D638	psi	3600
Elongation @ Break ²	D638	%	700
Tensile Impact Strength ³ (73 °F)	D1822	ft. lb/in ²	120
HDT @ 66 psi	D648	° F	172

Typical Value of Properties not to be construed as specifications

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

2 - @ 2 in/min.

3 - @50 mm/min



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