

HD53-3000 High Density Polyethylene

HD53-3000 is a Hexene copolymer certified prime grade designed for injection molding General Purpose thin-wall applications requiring good balance of properties. **HD53-3000** features high flow, fast cycling, easy processability, good impact strength and dimensional stability. **HD53-3000** recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C. **HD53-3000** complies with FDA regulation 21CFR 177.1520(c) 3.1a + 3.2a 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	30.0
Density	D1505	g/cm ³	0.952
Env. Stress Crack Resistance ³	D1693B	hr	<10.0
MECHANICAL			
Flexural Modulus ¹	D790	psi	145k
Tensile Strength @ Yield ²	D638	psi	3400
Elongation @ Break ²	D638	%	200
HDT Under Load (66 psi Unannealed)	D648	°F	163
Brittleness Temperature	D746	°F	<-58
Vicat Softening Temperature	D1525	°F	248

Typical Value of Properties not to be construed as specifications

- 1 - @ 0.051 in/min
- 2 - @ 2 in/min.
- 3 - Notched Bent Strip



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