

## HD53-4000

### High Density Polyethylene

**HD53-4000** is a copolymer certified prime resin specially designed for molding thin wall applications requiring good balance of properties. **HD53-4000** features high flow, fast cycling, easy processability, good impact strength, high gloss surfaces, good dimensional stability and good stiffness. **HD53-4000** recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
<b>PHYSICAL</b>			
Melt Flow Rate (190 °C, 2.16kg)	D1238	g/10 min	40.0
Density	D1505	g/cm <sup>3</sup>	0.952
Stress Cracking Resistance (122°F, F50)	D1693	hr	0.900
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup>	D790	psi	165k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	4k
Elongation @ Break <sup>2</sup>	D638	%	45
Tensile Impact Strength (Compression)	D1822	ft-lb/in <sup>2</sup>	15.0
HDT Under Load (66 psi Unannealed)	D648	°F	163
Brittleness Temperature	D746	°F	-94
Vicat Softening Temperature	D1525	°F	253

Typical Value of Properties not to be construed as specifications

1 - @ 0.51 in/min

2 - @ 2 in/min.



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