

VINPOL™ HD05H55

High Density Polyethylene

HLMI: 5.0

Density: 0.955

VINPOL HD05H55 is a high molecular weight high density polyethylene copolymer suitable for large part blow molding applications, heavy gauge sheet and thermoformed parts. Applications include food packaging and drums which require excellent stress crack resistance, impact strength and rigidity.

*Resin Property	Typical Value	Units	Test Method
Melt Index			
2.16 Kg at 190°C	< 0.10	g/10 min	ASTM D-1238
21.6 Kg at 190°C (HL)	5	g/10 min	ASTM D-1238
Density	0.955	g/cm ³	ASTM D-4883
Tensile Strength at Yield	4,100 (28)	psi (MPa)	ASTM D-638
¹ Flexural Modulus, Proc. A (1"x3"x0.125"), Tangent Calculation	200,000 (1,400)	psi (MPa)	ASTM D-790
ESCR, 100% Igepal, Cond. B	>1000	hrs	ASTM D-1693
Brittleness Temperature	<-121 (<-85)	°F (°C)	ASTM D-746
Vicat Softening Point	259 (126)	°F (°C)	ASTM D-1525
Tensile Impact Strength @ 73°F (23°C)	170 (360)	ft-lb/in ² (kJ/m ²)	ASTM D-1822

**All molded properties measured on compression molded plaques*

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