

ExxonMobil HDPE

HD 8660

Rotational Molding Resin

Description

HD 8660 is a high density hexene copolymer designed to offer superior toughness and stiffness. This resin is ideally suited for applications that require the optimum balance of low temperature toughness, creep resistance, stiffness, ESCR, and tear properties.

Applications

- Large Agricultural Tanks
- Intermediate Bulk Containers
- Industrial Products

Additive Package	Form	Stabilizer
HD 8660.29	Pellet	Long Term UV 8 Stabilization
HDP8660.29	35 US Mesh Powder	Long Term UV 8 Stabilization

Resin Properties	Test Based On ³	Typical Value / Unit
Melt Index	ASTM D 1238	2 g/10 min
Density	ASTM D 4883	0.942 g/cm ³
Melting Point	ASTM D 3418	129 (264) °C (°F)

Molded Properties¹

Tensile Strength at Yield ²	ASTM D 638	20.3 (2,950) MPa (psi)
Tensile Yield Elongation	ASTM D 638	16.2 %
Flexural Modulus	ASTM D 790	888 (129,000) MPa (psi)
1% Secant	Procedure B	
Impact Strength @ - 40°C	ARM	
1/8" (3.17 mm) thickness		108 (80) J (ft-lbs _f)
1/4" (6.35 mm) thickness		244 (180) J (ft-lbs _f)
Environmental Stress Crack Resistance, F ₅₀	ASTM D 1693 Condition. A	
	100% Igepal	550 hr
	10% Igepal	48 hr
Deflection Temperature	ASTM D 648	
@ 66 psi (455 Kpa)		67 (153) °C (°F)
@ 264 psi (1820 Kpa)		41 (106) °C (°F)

1. All physical properties were measured on 3 mm. rotomolded samples unless a different value is shown, except for ESCR, which was measured on compression molded samples.
2. Tensile testing was conducted at a crosshead speed of 50 mm/min. The tensile strength reported refers to the maximum stress reached during the test.
3. Test procedures may be modified to accommodate operating conditions or facility limitations.

HD 8660 grade can - in principle - be used in food contact applications in the USA (FDA) and in Canada (HPB). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

Revised March 2006

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