

ExxonMobil HD 8760

Rotational Molding HDPE



Material Description

HD 8760 is a high density hexene copolymer designed to offer outstanding stiffness and processability. This resin is ideally suited for applications that require the optimum balance of stiffness, processability and surface appearance.

Typical Applications

- ✓ RV tanks
- ✓ Consumer articles

HD 8760.29 Pellet Form; Long term UV8 stabilization

HDP8760.29 35 US Mesh Powder; Long term UV8 stabilization

Resin Properties	Test Based On ⁴	Units	Typical Value ¹
Melt Index	ASTM D-1238	g/10 min.	5.0
Density	ASTM D-4883 or ASTM D-1505	g/cm ³	0.948
Melting Point	ExxonMobil Method	°C (°F)	131 (268)
Molded Properties²			
Tensile Strength at Yield ³	ASTM D-638	MPa (psi)	23.4 (3400)
Tensile Break Elongation	ASTM D-638	%	600
Flexural Modulus 1% Secant	ASTM D-790 Procedure B	MPa (psi)	1060 (154,000)
Impact Strength @ -40°C	ARM	J (ft-lbs)	
1/8" (3.17 mm) thickness			79 (58)
1/4" (6.35 mm) thickness			176 (130)
Environmental Stress Crack Resistance (ESCR), F ₅₀	ASTM D-1693 Condition A	hr	
	100% Igepal		9
	10% Igepal		9
Deflection Temperature	ASTM D-648	°C (°F)	
@ 66 psi (455 Kpa)			74 (166)
@ 264 psi (1820 Kpa)			43 (110)

1. Values given are typical and should not be interpreted as specifications. Values may change with future development.
 2. All physical properties were measured on rotomolded samples, except for ESCR, which was measured on compression molded samples.
 3. 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.
 4. ASTM test procedures may be modified to accommodate operating conditions or facility limitations.
- Grades have NSF and UL recognition. Contact your ExxonMobil representative for details.

Food Packaging

Grades have FDA compliance. Restrictions may apply, contact your ExxonMobil representative for more details.