

ExxonMobil™ HDPE HD 8660 Series

High Density Polyethylene Resin

Product Description

HD 8660 Series are high density hexene copolymers designed to offer superior toughness and stiffness. They are ideally suited for applications that require the optimum balance of low temperature toughness, creep resistance, stiffness, ESCR, and tear properties.

General

Availability ¹	• Latin America	• North America	• South America
Additive	• HD 8660.29: Long Term UV-15 Stabilizer: Yes	• HDP8660.29: Long Term UV-15 Stabilizer: Yes	
Applications	• Industrial Products	• Intermediate Bulk Containers	• Large Agricultural Tanks
Revision Date	• July 2011		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.942 g/cm ³	0.942 g/cm ³	ASTM D4883
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	--	67 °C	ASTM D648
	153 °F		
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	--	41 °C	ASTM D648
	106 °F		
Melting Temperature	264 °F	129 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield			ASTM D638
2.0 in/min (51 mm/min)	3000 psi	20 MPa	
Elongation at Yield	20 %	20 %	ASTM D638
Flexural Modulus - 1% Secant	130000 psi	890 MPa	ASTM D790B
Environmental Stress-Crack Resistance			ASTM D1693A
10% Igepal, F50	50 hr	50 hr	
100% Igepal, F50	550 hr	550 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm)	80 ft·lb	108 J	
0.250 in (6.35 mm)	180 ft·lb	244 J	

Additional Information

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.

- 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.
- Test procedures may be modified to accommodate operating conditions or facility limitations.

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical ExxonMobil™ HDPE HD 8660 Series High Density Polyethylene Resin

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Notes

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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