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3 🔀 Info@pakrokimya.com.tr

Product Datasheet

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		
Additive	 HD 8660.29: Long T Stabilizer: Yes 	erm UV-15 •	HDP8660.29: Long Term UV-15 Stabilizer: Yes		
Applications	 Industrial Products 		Intermediate Bulk Containe	ers Large Agri	cultural Tanks
Revision Date	• 09/01/2014				
L			i		
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.941	g/cm³	0.941	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 k	g) 2.0	g/10 min	2.0	g/10 min	ASTM D1238 (mod)
Thermal	Tireigal Value	(Faciliah)	Typical Value	(CI)	Test Based On
	Typical Value 135	, ,	Typical Value	°C	ASTM D648
Deflection Temperature Under Load (DTUL at 66psi - Unannealed	_) 135	+	5/		ASTM D648
Deflection Temperature Under Load (DTUL at 264psi - Unannealed	_) 100	°F	38	°C	ASTM D648
Peak Melting Temperature	264	°F	129	°C	ASTM D3418
4.11.15	T : 1)/ 1	/E 1: 1. \	T : 11/1	(CI)	T . D . LO
Molded Properties	Typical Value	(English)	Typical Value	(51)	Test Based On
Tensile Strength at Yield	2000		10	MD	ASTM D638
2.0 in/min (50 mm/min)	2800		19	MPa	
Elongation at Yield (2.0 in/min (50 mm/min			10		ASTM D638
Flexural Modulus - 1% Secant	130000	psi	900	MPa	ASTM D790B
Environmental Stress-Crack Resistance					ASTM D1693A
10% Igepal, F50	40		40		
100% Igepal, F50	560	hr	560	hr	
moact	Typical Value	(English)	Typical Value	(CI)	Test Based On
mpact Strongth	i ypicai value	(English)	i ypical value	(31)	ARM
Impact Strength	/0	ft·lb	00		AKIVI
-40°F (-40°C), 0.125 in (3.18 mm)	68	π·lb ft·lb	92 258		
0.250 in (6.35 mm)	190	I CID	258	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.

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

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

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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ExxonMobil™ HDPE HD 8660 Series High Density Polyethylene Resin

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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