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Product Datasheet ExxonMobil[™] HDPE HD 8512 Series High Density Polyethylene Resin



Product Description

ExxonMobil[™] HD 8512 is a high density hexene copolymer designed to offer outstanding stiffness and toughness. This resin is 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	•	HDP8512.29: Long UV-15 Stabilizer: Yes		 HD 8512.29: Long Term U Stabilizer: Yes 	V-15	
Applications		Chemical Storage Ta Industrial Products		Intermediate Bulk ContainSeptic Tanks	ers • Wa	ter Tanks
Form(s)	•	Pellets		 Powder 		
Revision Date	•	04/30/2020				
Resin Properties		Typical Value	(Enalish)	Typical Value	(SI)	Test Based On
Density		/1	g/cm ³	· · · · · · · · · · · · · · · · · · ·	g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)			g/10 min		g/10 min	ASTM D1238
Peak Melting Temperature		264	°F	129	°C	ExxonMobil Method
Thermal		Typical Value	(English)	Typical Value	(SI)	Test Based On
Deflection Temperature Under Load (D at 66psi - Unannealed	DTUL)	142	-		°C	ASTM D648
Deflection Temperature Under Load (D at 264psi - Unannealed	OTUL)	102	°F	39	°C	ASTM D648
			(
Molded Properties		Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield		2200		22		ASTM D638
2.0 in/min (50 mm/min)	(· ·))	3200	•		MPa	
Elongation at Yield (2.0 in/min (50 mm	1/min))	()			%	ASTM D638
Flexural Modulus - 1% Secant		130000	psi	870	MPa	ASTM D790B
Environmental Stress-Crack Resistance	5					ASTM D1693A
10% Igepal, F50		50			hr	
100% Igepal, F50		200	hr	200	hr	
Impact		Typical Value	(English)	Typical Value	(51)	Test Based On
Impact Strength		i ypical value	(English)	i ypical value	(31)	ARM
-40°F (-40°C), 0.125 in (3.18 mm)		ED	ft·lb	71		AKIVI
-40° F (-40°C), 0.125 in (3.18 inin) -40°F (-40°C), 0.250 in (6.35 mm)			ft·lb	237	-	
-40 F (-40 C), 0.200 III (0.35 MM)		1/5	IUD	237	J	

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.

Processing Statement

All physical properties were measured on 3 mm rotomolded samples unless a different value is shown. ESCR was measured on compression molded plaques.

Tensile Strength at Yield and Elongation at Yield tested using ASTM D638 Type IV, 2 in/min. Flexural Modulus was measured at 0.5 in/min.

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.

ExxonMobil™ HDPE HD 8512 Series

High Density Polyethylene Resin

E∕xonMobil

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

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