

ExxonMobil™ HDPE HD 8660 Series

High Density Polyethylene Resin

ExxonMobil Chemical

Message:

HD 8660 series are high density hexene copolymers with excellent toughness and stiffness. They can be ideally used for applications that require the best balance between low temperature toughness, creep resistance, stiffness, environmental stress cracking resistance and tear resistance.

General Information			
UL YellowCard	E117534-220052		
Additive	HDP8660.29: Long Term UV-15 Stabilizer		
	HD 8660.29: Long Term UV-15 Stabilizer		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal, F50	40.0	hr	ASTM D1693A
100% Igepal, F50	560	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	19.3	MPa	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus - 1% Secant	896	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.18 mm	92	J	ARM
6.35 mm	258	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	57.0	°C	ASTM D648
1.8 MPa, not annealed	38.0	°C	ASTM D648
Peak Melting Temperature	129	°C	ASTM D3418
Additional Information			
¹- 除了 ESCR 是基于模压样本测定之外,所有物理性能均基于 3 mm 的滚塑样本 测定,除非注明的是其他值. 拉伸测试以 50 mm/min 的十字头速度进行.所报告的拉伸强度指的是在测试过 程中达到的最大应力. 可以修改测试流程以适应操作条件或设施限制.			
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NOTE			
1.	50 mm/min		
2.	50 mm/min		

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