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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

## Marlex® HMN 6060UV Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high density polyethylene is an ethylene-hexene copolymer tailored for injection molding applications that require:

Excellent stiffness

Strong UV resistance

Good impact strength

Durability and recyclability for sustainability

Moderate flow

Typical injection molding applications for HMN 6060UV include:

Crates

Tote boxes

Structural foam (with proper foaming agent)

This resin	meets	these	specif	ications

ASTM D4976 - PE 233

FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)

Structural foam (with proper foaming agent)				
Nominal Physical Properties <sup>(1)</sup>	English	SI	Method	
Density		0.962 g/cm <sup>3</sup>	ASTM D1505	
Flow Rate (MI, 190 °C/2.16 kg)		6.5 g/10 min	ASTM D1238	
Flexural Modulus, 1 % Secant, 16:1 span:depth, 0.5 in/min	230,000 psi	1,586 MPa	ASTM D790	
Flexural Modulus, Tangent (Young's), 16:1 span:depth, 0.5 in/min	250,000 psi	1,758 MPa	ASTM D790	
Tensile Strength at Yield, 2 in/min, Type IV bar	4,700 psi	32 MPa	ASTM D638	
Tensile Elongation at Yield, 2 in/min, Type IV bar	8 %	8 %	ASTM D638	
Tensile Elongation at Break, 2 in/min, Type IV bar	> 900 %	> 900 %	ASTM D638	
ESCR, Condition B (100 % Igepal), F <sub>50</sub>	15 h	15 h	ASTM D1693	
Notched Izod Impact, 73.4 °F Test Temperature	0.6 ft lbf/in	35 J/m	ASTM D256	
High Speed Impact Peak Energy, 21.6 ft/sec, 73.4 °F	15 ft lbf	20 J/m	ASTM D3763	
High Speed Impact Total Energy, 21.6 ft/sec, 73.4 °F	23 ft lbf	31 J/m	ASTM D3763	
Durometer Hardness, Type D (Shore D)	66	66	ASTM D2240	
Vicat Softening Temperature, Loading 1, Rate A	261 °F	127 °C	ASTM D1525	
Heat Deflection Temperature, 66 psi, Method A	189 °F	87 °C	ASTM D648	
Heat Deflection Temperature, 264 psi, Method A	124 °F	51 °C	ASTM D648	
Brittleness Temperature, Type A, Type I specimen	< -103 °F	< -75 °C	ASTM D746	

The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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Another quality product from

The Woodlands, Texas

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