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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

# Marlex<sup>®</sup> HMN 6060 Polyethylene HIGH DENSITY POLYETHYLENE (HDPE)

## This high density polyethylene is an ethylene-hexene copolymer This resin meets these specifications: tailored for injection molding applications that require:

- Excellent stiffness
- Good impact strength
- Durability
- Moderate flow

# Typical injection molding applications for HMN 6060 include:

- Crates
- Tote boxes
- 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, 16:1 span:depth, 0.5 in/min	250,000 psi	1,724 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	14 ft●lbf	19 J/m	ASTM D3763
High Speed Impact Total Energy, 21.6 ft/sec, 73.4 °F	25 ft∙lbf	34 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	190 °F	88 °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 (1) 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.

## Revision Date: September, 2020

Another quality product from



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- ASTM D4976 PE 233
  - FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)