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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

## Marlex® 9005

HIGH DENSITY POLYETHYLENE

### This hexene copolymer is tailored for injection molded applications that:

- Require moderate flow
- Require excellent impact strength
- Require excellent ESCR
- Require good warpage resistance
- Are durable and recyclable for sustainability

### This resin meets these specifications:

- ASTM D4976 - PE 233
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)
- UL94HB yellow card per UL file E54700

### Typical injection molded applications for 9005 include items such as:

- Industrial parts
- Seats
- Food and household containers
- Agricultural parts

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	English	SI	Method
<b>Density</b>	---	0.945 g/cm <sup>3</sup>	ASTM D1505
<b>Melt Index</b> , 190/2.16	---	6.0 g/10 min	ASTM D1238
<b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar	3,400 psi	23 MPa	ASTM D638
<b>Elongation at Break</b> , 2 in/min, Type IV bar	1,000%	1,000%	ASTM D638
<b>Flexural Modulus</b> , Tangent - 16:1 span:depth, 0.5 in/min	155,000 psi	1,070 MPa	ASTM D790
<b>ESCR</b> , Condition B (100% Igepal), F <sub>50</sub>	90 h	90 h	ASTM D1693
<b>Durometer Hardness</b> , Type D (Shore D)	62	62	ASTM D2240
<b>Vicat Softening Temperature</b> , Loading 1, Rate A	250°F	121°C	ASTM D1525
<b>Brittleness Temperature</b> , Type A, Type I specimen	<-103°F	<-75°C	ASTM D746

1. 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 or ASTM F1473.

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Another quality product from



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