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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® 9332 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This broad molecular weight distribution, high molecular weight ethylene-hexene copolymer is tailored for conduit pipe applications that require:

- Outstanding processability
- Superior melt strength
- Excellent slow crack growth resistance
- Good balance between pipe stiffness and toughness

Typical conduit pipe applications for 9332 include:

- Telecommunications
- Data transmission
- Electrical

This resin meets or exceeds these standards/specifications:

- ASTM F2160
- ASTM D3350, Cell Class PE334480A

Nominal Resin Properties ⁽¹⁾	English	SI	Method
Density	---	0.944 g/cm ³	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	---	0.31 g/10 min	ASTM D1238
Flexural Modulus , 2 % Secant, 16:1 span:depth, 0.5 in/min	106,000 psi	730 MPa	ASTM D790
Tensile Strength at Yield , 2 in/min, Type IV bar	3,000 psi	21 MPa	ASTM D638
Tensile Elongation at Break , 2 in/min, Type IV bar	500 %	500 %	ASTM D638
ESCR , Condition B, (10 % Igepal), F ₁₀	> 100 h	> 100 h	ASTM D1693
Brittleness Temperature	< -103 °F	< -75 °C	ASTM D746
Thermal Stability	> 428 °F	> 220 °C	ASTM D3350

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.

