

## Marlex® TRB-490 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This bimodal high molecular weight, high density polyethylene (HMW-HDPE) ethylene-hexene copolymer is tailored as a blend resin component for corrugated pipe applications that require excellent:

- Melt strength
- Pipe stiffness
- Creep resistance
- Impact resistance
- Slow crack growth resistance
- Chemical resistance

Typical corrugated pipe applications for TRB-490 include:

- Roadway culverts
- Storm sewers
- Land drainage

This resin meets these standards/specifications:

- ASTM D4976 – PE 235
- AASHTO M 294
- AASHTO M 252
- ASTM D3350, Cell Class PE445520A

Nominal Resin Properties <sup>(1)</sup>	English	SI	Method
<b>Density</b>	---	0.950 g/cm <sup>3</sup>	ASTM D1505
<b>Flow Rate</b> (HLMI, 190 °C/21.6 kg)	---	9.5 g/10 min	ASTM D1238
<b>Flexural Modulus</b> , 2 % Secant, 16:1 span:depth, 0.5 in/min	130,000 psi	900 MPa	ASTM D790
<b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar	3,750 psi	26 MPa	ASTM D638
<b>Tensile Elongation at Break</b> , 2 in/min, Type IV bar	700 %	700 %	ASTM D638
<b>NCLS</b> , 15 % of the reference yield stress of 4,000 psi (600 psi)	> 800 h	> 800 h	ASTM F2136
<b>ESCR</b> , Condition B (100% Igepal), F <sub>50</sub>	> 1,000 h	> 1,000 h	ASTM D1693
<b>Brittleness Temperature</b> , Type A clamp, Type I specimen	< -103 °F	< -75 °C	ASTM D746
<b>Thermal Stability</b>	> 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.

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