

## Marlex® HXB TR-494 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

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

- Melt strength
- Pipe stiffness
- Creep resistance
- Impact resistance
- Slow Crack Growth Resistance
- Chemical resistance

This resin meets these specifications:

- ASTM D4976 – PE 235
- AASHTO M 294
- AASHTO M 252
- ASTM D3350, Cell Class PE445640A

Typical corrugated pipe applications for HXB TR-494 include:

- Roadway culverts
- Storm sewers
- Land drainage
- Conduit/Duct

| Nominal Resin Properties <sup>(1)</sup>                           | English     | SI                      | Method     |
|---|-------------|-------------------------|------------|
| <b>Density</b>  | ---         | 0.954 g/cm <sup>3</sup> | ASTM D1505 |
| <b>Flow Rate</b> (HLMI, 190 °C/21.6 kg)                           | ---         | 5.5 g/10 min            | ASTM D1238 |
| <b>Flexural Modulus</b> , 2 % Secant, 16:1 span:depth, 0.5 in/min | 155,000 psi | 1,340 MPa               | ASTM D790  |
| <b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar          | 4,200 psi   | 29 MPa                  | ASTM D638  |
| <b>Tensile Elongation at Break</b> , 2 in/min, Type IV bar        | 800 %       | 800 %                   | ASTM D638  |
| <b>ESCR</b> , Condition B, (10 % Igepal), F <sub>10</sub>         | > 1000 h    | > 1000 h                | ASTM D1693 |
| <b>ESCR</b> , Condition C, (100 % Igepal), F <sub>20</sub>        | > 600 h     | > 600 h                 | ASTM D1693 |
| <b>NCLS</b> , 15 % of the reference yield stress of 4,000 psi     | > 24 h      | > 24 h                  | ASTM F2136 |

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.

