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Marlex® Polyethylene

PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

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

Typical corrugated pipe applications for HXB TR-494 include:

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

This resin meets these specifications:

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

Nominal Resin Properties(1)	English	SI	Method
Density	---	0.954 g/cm^3	ASTM D1505
Flow Rate (HLMI, 190 °C/21.6 kg)	---	5.5 g/10 min	ASTM D1238
Flexural Modulus, 2 % Secant, 16:1 span:depth, 0.5 in/min	155,000 psi	1,340 MPa	ASTM D790
Tensile Strength at Yield, 2 in/min, Type IV bar	4,200 psi	29 MPa	ASTM D638
Tensile Elongation at Break, 2 in/min, Type IV bar	800 %	800 %	ASTM D638
ESCR, Condition B, (10 % Igepal), F_{10}	> 1000 h	> 1000 h	ASTM D1693
ESCR, Condition C, (100 % Igepal), F_{20}	> 600 h	> 600 h	ASTM D1693
NCLS, 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.

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Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Chevron Phillips Chemical Company LP does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.