

For more information and technical assistance contact:

Chevron Phillips Chemical Company LP
P.O. Box 4910
The Woodlands, TX 77387-4910
800.231.1212



PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex[®] HP076

HIGH DENSITY POLYETHYLENE

This hexene copolymer is tailored for pipe applications that require:

- Good melt strength
- Good pipe stiffness
- Outstanding ESCR

This resin meets or exceeds these specifications:

- ASTM D4976 – PE 235
- AASHTO M294
- ASTM F2160
- ASTM D3350 Class PE445540A

Typical corrugated pipe applications for HP076 include:

- Culverts and storm sewers
- Land drainage
- Conduit

Nominal Resin Properties	English	SI	Method
Density	---	0.953 g/cm ³	ASTM D1505
Melt Index , 190/2.16	---	0.10 g/10 min	ASTM D1238
Flow Rate (HLMI, 190/21.6)	---	16.0 g/10 min	ASTM D1238
Tensile Strength at Yield , 2 in/min, Type IV bar	3,900 psi	27 MPa	ASTM D638
Elongation at Break , 2 in/min, Type IV bar	600%	600%	ASTM D638
Flexural Modulus , 2% Secant – 16:1 span:depth, 0.5 in/min	140,000	965 MPa	ASTM D790
ESCR , Condition B (10% Igepal), F ⁵⁰	>1000 h	>1000 h	ASTM D1693
Notched Constant Ligament Stress , Average of five	>175 h	>175 h	ASTM F2136
Oxidative Induction Time , 200°C	>100 min	>100 min	ASTM D3895
ESCR , Condition C (100% Igepal), f ₂₀	>600 h	>600 h	ASTM D1693

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.

Revision Date June, 2012

Another quality product from



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.