

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.

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