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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® 7104

LINEAR LOW DENSITY POLYETHYLENE

This linear low density, high molecular weight hexene copolymer is tailored for sheet and geomembrane applications that require:

- Outstanding ESCR
- Good melt strength
- Excellent flexibility
- Good processability
- Good gloss
- High coefficient-of-friction values

Typical sheet applications for 7104 include:

- Coextruded cap layers on HDPE
- Blends with HDPE

This resin meets these specifications:

- ASTM D4976 - PE 215
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)

Typical geomembrane applications for 7104 include:

- Landfill covers
- Flat and round-die products

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.919 g/cm ³	ASTM D1505
Melt Index , 190/2.16	---	0.35 g/10 min	ASTM D1238
Tensile Strength at Yield , 2 in/min, Type IV bar	1,600 psi	11 MPa	ASTM D638
Elongation at Break , 2 in/min, Type IV bar	700%	700%	ASTM D638
Flexural Modulus , Tangent - 16:1 span:depth, 0.5 in/min	60,000 psi	410 MPa	ASTM D790
ESCR , Condition B (10% Igepal), F ₅₀	>2,000 h	>2,000 h	ASTM D1693
ESCR , Condition C (100% Igepal), F ₅₀	>2,000 h	>2,000 h	ASTM D1693
SP-NCTL	>1,000 h	>1,000 h	ASTM D5397 (Appendix)
Durometer Hardness , Type D (Shore D)	51	51	ASTM D2240
Vicat Softening Temperature , Loading 1, Rate A	212°F	100°C	ASTM D1525
Heat Deflection Temperature , 66 psi, Method A	123°F	51°C	ASTM D648
Brittleness Temperature , Type A, Type I specimen	<-103°F	<-75°C	ASTM D746
Oxidative Induction Time , 200°C	>100 min	>100 min	ASTM D3895

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.

MSDS #240370

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