

PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex[®] K203

LOW DENSITY LINEAR POLYETHYLENE

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

- Outstanding ESCR
- Broad fusion range
- Excellent melt strength
- Good processability
- · Excellent flexibility
- Improved output and texturing

Typical sheet applications for K203 include:

- · Coextruded cap layers for HDPE
- Blends with HDPE

Typical geomembrane applications for K203 include:

- Landfill covers and caps
- · Masterbatch carrier
- Round and flat die projects

This resin meets these specifications:

- ASTM D4976 PE 215
- FDA 21 CFR 177.1520(c) 3.1a, use conditions C through G

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density		0.922 g/cm ³	ASTM D1505
Flow Rate (HLMI, 190/21.6)		15.0 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	1,800 psi	12 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	750%	750%	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	70,000 psi	480 MPa	ASTM D790
ESCR, Condition B (10% Igepal), F 50	>1,500 h	>1,500 h	ASTM D1693
ESCR, Condition C (100% Igepal), F50	>1,500 h	>1,500 h	ASTM D1693
SP-NCTL	>1,000 h	>1,000 h	ASTM D5397 (Appendix)
Durometer Hardness, Type D (Shore D)	55	55	ASTM D2240
Vicat Softening Temperature, Loading 1, Rate A	219°F	104°C	ASTM D1525
Heat Deflection Temperature, 66 psi, Method A	124°F	51°C	ASTM D648
Brittleness Temperature, Type A, Type I specimen	<-103°F	<-75°C	ASTM D746
Tensile Impact, Type S bar	380 ft•lb/in2	800 kJ/m2	ASTM D1822

^{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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The Woodlands, Texas



