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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® K605

HIGH DENSITY POLYETHYLENE

This extra high molecular weight ethylene homopolymer is tailored for large applications that:

- Require good ESCR
- Require exceptional rigidity
- Require excellent melt strength
- Are durable and recyclable for sustainability

Typical blow molded applications for K605 include items such as:

- Automotive bumper beams
- Carrier resin for mineral-reinforced HDPE masterbatches

Typical thermoformed applications for K605 include items such as:

- Nursery containers
- Dunnage trays
- Large tote boxes

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.961 g/cm ³	ASTM D1505
Flow Rate (HLMI, 190/21.6)	---	11.0 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	4,300 psi	30.0 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	800%	800%	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	220,000 psi	1,510 MPa	ASTM D790
ESCR, Condition B (100% Igepal), F ₅₀	30 h	30 h	ASTM D1693
Durometer Hardness, Type D (Shore D)	64	64	ASTM D2240
Vicat Softening Temperature, Loading 1, Rate A	263°F	128°C	ASTM D1525
Heat Deflection Temperature, 66 psi, Method A	191°F	88°C	ASTM D648
Brittleness Temperature, Type A, Type I specimen	<-103°F	<-75°C	ASTM D746
Tensile Impact, Type S bar	115 ft•lb/in ²	240 kJ/m ²	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.

MSDS #240370

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Another quality product from



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