

For more information and technical assistance contact:

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



PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® K606 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high molecular weight ethylene homopolymer is tailored for thick sheet applications that require:

- Good process stability
- Outstanding stiffness
- Good whiteness in unpigmented sheet
- Durability

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 2.2, use conditions B through H per Table 2 of 21 CFR 176.170(c)

Typical sheet applications for K606 include:

- Separator panels
- Signage
- General purpose board stock

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.964 g/cm ³	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	---	0.70 g/10 min	ASTM D1238
Flexural Modulus , Tangent - 16:1 span:depth, 0.5 in/min	240,000 psi	1,650 MPa	ASTM D790
Tensile Strength at Yield , 2 in/min, Type IV bar	4,400 psi	30 MPa	ASTM D638
Tensile Elongation at Break , 2 in/min, Type IV bar	300 %	300 %	ASTM D638
ESCR , Condition B (100 % Igepal), F50	15 h	15 h	ASTM D1693
Brittleness Temperature , Type A, Type I specimen	< -103 °F	< -75°C	ASTM D746

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.

