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Marlex® Polyethylene

PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® 1412 Polyethylene

LOW DENSITY POLYETHYLENE (LDPE)

This autoclave LDPE homopolymer is tailored for applications that require:

- Good flexibility
- Excellent flow
- Excellent warpage resistance
- Durability

This resin meets these specifications:

- ASTM D4976 - PE 111
- FDA 21 CFR 177.1520(c) 2.2, use conditions B through H per 21 CFR 176.170(c)

Typical injection molded applications for 1412 include:

- Lids and overcaps with multi-level molds

Nominal Physical Properties[1]	English	SI	Method
Density	---	0.924 g/cm^3	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	---	35.0 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	150 %	150 %	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	48,000 psi	330 MPa	ASTM D790
Durometer Hardness, Type D (Shore D)	50	50	ASTM D2240
Vicat Softening Temperature, Loading 1, Rate A	198 °F	92 °C	ASTM D1525
Brittleness Temperature, Type A, Type I specimen	-44 °F	-42 °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.

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Chevron Phillips CHEMICAL

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Chevron Phillips Chemical Company LP does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.