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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® 9012

HIGH DENSITY POLYETHYLENE

This hexene copolymer is tailored for injection molded applications that:

- Require good flow
- Require good impact strength
- Require good stiffness
- Are durable and recyclable for sustainability

Typical injection molded applications for 9012 include items such as:

- Food pails (2-5 gallon)
- Automotive applications
- Toys
- Closures
- Housewares

This resin meets these specifications:

- ASTM D4976 - PE 232
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)

| NOMINAL PHYSICAL PROPERTIES ⁽¹⁾ | English | SI | Method |
|---|-------------|-------------------------|------------|
| Density | --- | 0.952 g/cm ³ | ASTM D1505 |
| Melt Index , 190/2.16 | --- | 11.5 g/10 min | ASTM D1238 |
| Tensile Strength at Yield , 2 in/min, Type IV bar | 3,900 psi | 27 MPa | ASTM D638 |
| Elongation at Break , 2 in/min, Type IV bar | 900% | 900% | ASTM D638 |
| Flexural Modulus , Tangent - 16:1 span:depth, 0.5 in/min | 185,000 psi | 1,270 MPa | ASTM D790 |
| ESCR , Condition B (100% Igepal), F ₅₀ | 15 h | 15 h | ASTM D1693 |
| Durometer Hardness , Type D (Shore D) | 63 | 63 | ASTM D2240 |
| Vicat Softening Temperature , Loading 1, Rate A | 255°F | 124°C | ASTM D1525 |
| 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.

MSDS #240370

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Another quality product from



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