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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

## Marlex<sup>®</sup> C513UV

HIGH DENSITY POLYETHYLENE

This extra high molecular weight, hexene copolymer is tailored for intermediate bulk container applications that require:

- Outstanding impact resistance
- Outstanding ESCR
- Excellent processability
- UV stabilization

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 3.1a, use conditions C through G per 21 CFR 176.170(c). Volume of food contacting article must be equal to or greater than 5 gallons.

Typical applications for C513UV include blow molded items such as:

- Intermediate bulk containers
- Agricultural containers

| NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>              | English                   | SI                      | Method     |
|---|---------------------------|-------------------------|------------|
| Density   | ---                       | 0.945 g/cm <sup>3</sup> | ASTM D1505 |
| Flow Rate (HLMI, 190/21.6)                              | ---                       | 5.5 g/10 min            | ASTM D1238 |
| Tensile Strength at Yield, 2 in/min, Type IV bar        | 3,500 psi                 | 24 MPa                  | ASTM D638  |
| Elongation at Break, 2 in/min, Type IV bar              | 700%                      | 700%                    | ASTM D638  |
| Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min | 155,000 psi               | 1070 MPa                | ASTM D790  |
| ESCR, Condition A (100% Igepal), F <sub>50</sub>        | >2000 h                   | >2000 h                 | ASTM D1693 |
| ESCR, Condition B (100% Igepal), F <sub>50</sub>        | >2000 h                   | >2000 h                 | ASTM D1693 |
| Durometer Hardness, Type D (Shore D)                    | 61                        | 61                      | ASTM D2240 |
| Vicat Softening Temperature, Loading 1, Rate A          | 254°F                     | 123°C                   | ASTM D1525 |
| Heat Deflection Temperature, 66 psi, Method A           | 150°F                     | 66°C                    | ASTM D648  |
| Brittleness Temperature, Type A, Type I specimen        | <-103°F                   | <-75°C                  | ASTM D746  |
| Tensile Impact, Type S bar                              | 275 ft•lb/in <sup>2</sup> | 580 kJ/m <sup>2</sup>   | 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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Another quality product from



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