

# Marlex® 9519H

HIGH DENSITY POLYETHYLENE

This gas phase, high molecular weight, homopolymer with antistatic agent is tailored for lightweight blow molded applications that:

- Require excellent stiffness to ESCR ratio
- Require good melt strength
- Are durable and recyclable for sustainability

This resin meets these specifications:

- ASTM D4976 – PE 245
- FDA 21 CFR 177.1520(c) 2.1, foods of > pH5, types I, IV-B, VI-B, VII-B and VIII, use conditions E through G per 21 CFR 176.170(c)

Typical blow molded applications for 9519H include:

- Household & industrial chemical containers
- Industrial containers / large parts

| Nominal Resin Properties <sup>(1)</sup>                         | English     | SI                      | Method     |
|---|-------------|-------------------------|------------|
| <b>Density</b>  | ---         | 0.962 g/cm <sup>3</sup> | ADTM D1505 |
| <b>Melt Index</b> , Condition 190/2.16                          | ---         | 0.34 g/10 min           | ASTM D1238 |
| <b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar        | 4,600 psi   | 32 MPa                  | ASTM D638  |
| <b>Elongation at Break</b> , 2 in/min, Type IV bar              | >500%       | >500%                   | ASTM D638  |
| <b>Flexural Modulus</b> , Tangent – 16:1 span:depth, 0.5 in/min | 215,000 psi | 1,480 MPa               | ASTM D790  |
| <b>ESCR</b> , Condition B (100% Igepal), F <sub>50</sub>        | 24 h        | 24 h                    | ASTM D1693 |
| <b>Brittleness Temperature</b> , Type A clamp, 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.

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