

# ICELENE 0549

## High Molecular Weight High Density Polyethylene

**PRODUCT DESCRIPTION**

Icelene 0549 is a certified prime high molecular weight high density copolymer that provides broad bimodal molecular weight distribution, high stiffness and good heat seal response and strength. Application includes bags & puches, can liners, retail carryout bags ( T-Shirt bags), speciality film. Icelene 0549 is cleared for use in articles or components of articles intended for contact with food under 21 CFR 177.1520(c) and meets the specifications in that paragraph.

| Properties*                     | Test Method | English       |                   | SI            |                   |
|---------------------------------|-------------|---------------|-------------------|---------------|-------------------|
|                                 |             | Typical Value | Unit              | Typical Value | Unit              |
| Melt Flow Index (190°C/2.16 kg) | ASTM D1238  | 0.06          | g/10 min.         | 0.06          | g/10 min          |
| Density (23°C)                  | ASTM D1505  | 0.949         | g/cm <sup>3</sup> | 0.952         | g/cm <sup>3</sup> |
| Dart Drop Impact Strength F50   | ASTM D1709  | 340           | g                 | 340           | g                 |
| Tensile Strength at Break       |             |               |                   |               |                   |
| MD                              | ASTM D882   | 12200         | PSI               | 84.1          | Mpa               |
| TD                              | ASTM D882   | 8300          | PSI               | 57.2          | Mpa               |
| Tensile Strength at Yield       |             |               |                   |               |                   |
| MD                              | ASTM D882   | 5000          | PSI               | 34.5          | Mpa               |
| TD                              | ASTM D882   | 4200          | PSI               | 29            | Mpa               |
| Tensile Strength at Break       |             |               |                   |               |                   |
| MD                              | ASTM D882   | 320           | %                 | 320           | %                 |
| TD                              | ASTM D882   | 390           | %                 | 390           | %                 |
| Secant Modulus                  |             |               |                   |               |                   |
| MD                              | ASTM D882   | 137000        | PSI               | 945           | Mpa               |
| TD                              | ASTM D882   | 152000        | PSI               | 1050          | Mpa               |
| Elmendorf Tear Strength         |             |               |                   |               |                   |
| MD                              | ASTM 1992   | 11            | g                 | 11            | g                 |
| TD                              | ASTM D1992  | 76            | g                 | 76            | g                 |

\* Typical values of Properties which can vary with in specification limits and are not to be construed as specifications.

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