

ICELENE LL4118 Butene Copolymer LLDPE Film Resins

Applications:

Agricultural Film, Industrial Liners and packaging,
Garment Bags

Additive packages

AA Slip (0 ppm), Antiblock (0 ppm)
BB Slip (0 ppm), Antiblock (4000 ppm)
CC Slip (1500 ppm), Antiblock (5000 ppm)

PRODUCT DESCRIPTION

ICELENE LL4118 is a certified prime resin intended for use in blown film applications. ICELENE LL4118 resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2a, and may thus be used in the United States as an article or component of an article intended for use in contact with food, without temperature or food-type restrictions, subject to technical suitability.

| Properties* | Test Method | Metric Units | | English | |
|------------------------------------|--------------|---------------|-------------------|---------------|-------------------|
| | | Typical Value | Unit | Typical Value | Unit |
| Melt Flow Index ² | ASTM D1238 | 1.0 | g/10 min. | 1.0 | g/10 min |
| Density (23°C) | ASTM D792 | 0.918 | g/cm ³ | 0.918 | g/cm ³ |
| Film Properties¹ | | | | | |
| Tear Strength | | | | | |
| MD | ASTM D1992 | 170 | g | 170 | g |
| TD | ASTM D1992 | 320 | g | 320 | g |
| Dart Drop Impact Strength F50 | ASTM D1709/A | 90 | g | 90 | g |
| Tensile Strength | | | | | |
| MD | ASTM D882 | 36.5 | Mpa | 5300 | psi |
| TD | ASTM D882 | 26.9 | Mpa | 3900 | psi |
| Yield Strength | | | | | |
| MD | ASTM D882 | 10.7 | MPa | 1550 | psi |
| TD | ASTM D882 | 11 | MPa | 1600 | psi |
| Elongation | | | | | |
| MD | ASTM D882 | 580 | % | 580 | % |
| TD | ASTM D882 | 690 | % | 690 | % |
| Gloss 45° | ASTM D523 | 72 | | 72 | |
| Haze | ASTM D1003 | 9.3 | % | 9.3 | % |

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

¹ Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and 100-mil die gap at a blow up ratio of 2.5:1 but are dependent upon operating Conditions.

² Condition 190°C/2.16 kg.

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