

Typical Application

Agriculture Film, Shrink Film, Bags, Bottles, Opaque Containers, Wire & Cable.

Product Description

Ramolene LDBF 18025 SB is a low density homopolymer resin used in heavy duty film and blow molding applications. Excellent puncture resistance combined with impact properties make Ramolene LDBF 18025 SB an excellent choice for bags used to package fertilizer, peat moss, decorative stone and agricultural and construction materials. Typical blow molding applications include flexible containers, squeeze bottles and toys. Films made with Ramolene LDBF 18025 SB exhibit excellent toughness, excellent heat shrink, good clarity and processibility.

| Typical Properties | English Unit | SI Unit | ASTM |
|--|-------------------------|-------------------------|-----------------|
| Physical | | | |
| Melt Flow Rate (190 °C / 2.16 kg) | 0.25 g/10 min | 0.25 g/10 min | D1238 |
| Density (23 °C) | 0.921 g/cm ³ | 0.921 g/cm ³ | D1505 |
| Mechanical Stress & Impact | | | |
| Dart Drop Impact Strength, F50 | 220 g/μm | 220 g/μm | D1709 |
| Flexural Modulus 1% Secant | 34,000 psi | 235 MPa | D790 |
| Film TT&E | | | |
| Tensile Strength @ Break - MD | 3,000 psi | 21 MPa | D882 |
| Tensile Strength @ Break - TD | 2,800 psi | 19 MPa | D882 |
| Tensile Elongation @ Break - MD | 300 % | 300 % | D882 |
| Tensile Elongation @ Break - TD | 500 % | 500 % | D882 |
| 1% Secant Modulus - MD | 24,000 psi | 166 MPa | D882 |
| 1% Secant Modulus - TD | 27,000 psi | 186 MPa | D882 |
| Elmendorf Tear Strength - MD | 220 g-force | 220 g-force | D1922 |
| Elmendorf Tear Strength - TD | 220 g-force | 220 g-force | D1922 |
| Hardness | | | |
| Durometer Shore Hardness (Shore D) | 50 | 50 | D2240 |
| Thermal | | | |
| Vicat Softening Temperature | 194 °F | 90.0 °C | D1525 |
| Low Temperature Brittleness, F ₅₀ | < -105 °F | < -76 °C | D746 |
| Additives | | | |
| Slip | 500 ppm | 500 ppm | Producer Method |
| AntiBlock | 4,000 ppm | 4,000 ppm | Producer Method |

All tests were run under laboratory conditions, ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of Ramtech's products must be guided by the user's own methods for selection of proper formulation. RAMTECH OVERSEAS, INC. disclaims any responsibility for misuse or misapplication of its products. Ramtech makes no warranty of merchantability and there is no warranty that goods supplied shall be fit for any particular purpose.