

Typical Application

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

Product Description

Ramolene LDBF 18025 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 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 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)	0.918 g/cm ³	0.918 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	0 ppm	0 ppm	Producer Method
AntiBlock	0 ppm	0 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.