Ramolene™ HDBF 49006

High Density Polyethylene

High Molecular Weight Blown Film Flexible Packaging

Typical Application

Bags & Pouches, Can Liners, Retail Carryout Bags, Flexible Packaging

Product Description

Ramolene HDBF 49006 is high molecular weight high density polyethylene copolymer with broad bimodal molecular weight distribution, that provides high stiffness, good heat seal and strength. Usually selected for use in merchandise bags, grocery sacks, trash can liners, produce bags, and roll stock.

Typical Properties	English Unit	SI Unit	ASTM
Physical			
Melt Flow Rate (190 °C / 2.16 kg)	0.06 g/10 min	0.06 g/10 min	D1238
Density (23 °C)	0.949 g/cm^3	0.949 g/cm^3	D1505
Mechanical Stress & Impact			
Dart Drop Impact Strength, F50	340 g/µm	340 g/µm	D1709
Film TT&E			
Tensile Strength @ Break - MD	12,200 psi	84 MPa	D882
Tensile Strength @ Break - TD	8,300 psi	57 MPa	D882
Tensile Strength @ Yield - MD	5,000 psi	35 MPa	D882
Tensile Strength @ Yield - TD	4,200 psi	29 MPa	D882
Tensile Elongation @ Break - MD	320 %	320 %	D882
Tensile Elongation @ Break - TD	390 %	390 %	D882
1% Secant Modulus - MD	137,000 psi	945 MPa	D882
1% Secant Modulus - TD	152,000 psi	1049 MPa	D882
Elmendorf Tear Strength - MD	11 g	11 g	D1922
Elmendorf Tear Strength - TD	76 g	76 g	D1922

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