

Technical Data Sheet

High Density Polyethylene High Molecular Weight (HDPE-HMW) Bimodal Resin Designed For Thin Gauge Film Extrusion Applications

BICSOL H00449F is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. **BICSOL H00449F** is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Suggested Applications: T-Shirt Bags Multi-Wall Bag Liners Trash Can Liners
Heavy Duty Bags Merchandise Bags

Typical Properties	Nominal Values	SI Units	Test Method
Melt Flow Rate (190°C, 2.16 kg)	0.04	g/10 min	ASTM D1238
Melt Flow Rate (190°C, 21.6 kg) - HLMI	8.5	g/10 min	
Density	0.949	g/cm ³	ASTM D1505
Melting Point	131.0	°C	DSC
Draft Drop Impact Strength	590	g/mil	ASTM D1709
Elmendorf Tear Strength MD	17	g/mil	ASTM D1922
Elmendorf Tear Strength TD	210	g/mil	ASTM D1922
Tensile Strength Break MD	9800	Psi	ASTM D882
Tensile Strength Break TD	7000	Psi	ASTM D882
Tensile Elongation Break MD	290	%	ASTM D882
Tensile Elongation Break TD	480	%	ASTM D882
1% Secant Flexural Modulus MD	74000	Psi	ASTM D882
1% Secant Flexural Modulus TD	128000	Psi	ASTM D882

Note: Film properties are not intended to be used as specifications. They represent 0.50 mil film produced in laboratory conditions at a blow-up ratio of 4.0:1 and a stalk height of 8 times the die diameter. Output: 14.5 Lbs/Hr./In. Die Circumference.