

TECHNICAL DATASHEET

LLDPE QB6118A

PRODUCT DESCRIPTION

QB6118A is a series of pelletized linear low density polyethylene resins selected by customers for applications that require maximum strength and toughness. These products offer excellent additive homogeneity, require no transfer equipment modification, and facilitate clean and safe handling. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging. The QB6118A series offers enhanced film strength, drawdown, toughness and heat seal strength. In addition, these resins have excellent low temperature resistance for applications such as stretch film and frozen food packaging.

TYPICAL PROPERTIES	ENGLISH		SI		TEST METHOD
	UNIT	VALUE	UNIT	VALUE	
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	g/10 min	1.0	g/10 min	1.0	ASTM D1238
Base Resin Density, (23 °C)	g/cm³	0.918	g/cm³	0.918	ASTM D792
Product Density, (23 °C)	g/cm³	0.923	g/cm³	0.923	ASTM D792
Film					
Dart Drop Impact Strength, F50	g	200	g	200	ASTM D1709
Tensile Strength at Break, MD	psi	7500	MPa	52	ASTM D882
Tensile Strength at Break, TD	psi	6500	MPa	45	ASTM D882
Tensile Elongation at Break, MD	%	620	%	620	ASTM D882
Tensile Elongation at Break, TD	%	700	%	700	ASTM D882
1% Secant Modulus, MD	psi	35000	MPa	240	ASTM D882
1% Secant Modulus, TD	psi	42000	MPa	290	ASTM D882
Elmendorf Tear Strength, MD	g	400	g	400	ASTM D1922
Elmendorf Tear Strength, TD	g	650	g	650	ASTM D1922
Thermal					
Vicat Softening Temperature	°F	220	°C	105	ASTM D1525
Optical					
Haze	%	17	%	17	ASTM D1003
Gloss (45°)	%	45	%	45	ASTM D2457
Additive					
Slip	ppm	1000	ppm	1000	Producer Method
Antiblock	ppm	6750	ppm	6750	Producer Method
Polymer Processing Aid		None		None	Producer Method

Notes: Film sample used for testing was 1.0 mil gauge, 2.5:1 BUR. These are typical property values not to be construed as specification limits.

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LINEAR LOW DENSITY
POLYETHYLENE
QB6118A

APPLICATION:

Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film;
Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film

PROCESSING METHOD:

Blown Film; Sheet and Profile Extrusion

PROCESSING TECHNIQUES:

Recommended processing conditions for this product are a melt temperature of 400 - 450 °F and a 1.5 to 3.0:1 blow-up ratio.

Using proper techniques, these products can readily be drawn below 0.90 mils at optimum production rates.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

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