

## TECHNICAL DATASHEET

# LDPE QBL002A

### PRODUCT DESCRIPTION

**QBL002A** is a low density homopolymer resin selected by customers for use in shrink packaging, bundling, pallet wrap and heavy-duty liner applications. Excellent bubble stability, melt strength, impact and shrinkage are key attributes of QBL002A.

TYPICAL PROPERTIES	ENGLISH		SI		TEST METHOD
	UNIT	VALUE	UNIT	VALUE	
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	g/10 min	0.25	g/10 min	0.25	ASTM D1238
Base Resin Density, (23 °C)	g/cm <sup>3</sup>	0.920	g/cm <sup>3</sup>	0.920	ASTM D1505
Product Density, (23 °C)	g/cm <sup>3</sup>	0.922	g/cm <sup>3</sup>	0.922	ASTM D1505
<b>Mechanical</b>					
Tensile Strength at Break	psi	2600	MPa	17.9	ASTM D638
Tensile Strength at Yield	psi	1420	MPa	9.79	ASTM D638
Tensile Elongation at Break	%	700	%	700	ASTM D638
Tensile Elongation at Yield	%	100	%	100	ASTM D638
<b>Film</b>					
Dart Drop Impact Strength, F50	g	180	g	180	ASTM D1709
Tensile Strength at Break (MD)	psi	3000	MPa	20.7	ASTM D882
Tensile Strength at Break (TD)	psi	2800	MPa	19.3	ASTM D882
Tensile Elongation at Break (MD)	%	310	%	310	ASTM D882
Tensile Elongation at Break (TD)	%	430	%	430	ASTM D882
1% Secant Modulus (MD)	psi	30000	MPa	207	ASTM D882
1% Secant Modulus (TD)	psi	35000	MPa	241	ASTM D882
Water Vapor Transmission Rate			g/m <sup>2</sup> /day	10	ASTM F1249
<b>Hardness</b>					
Shore Hardness, (Shore D)		45		45	ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	°F	199	°C	93	ASTM D1525
Low Temperature Brittleness, F <sub>50</sub>	°F	-103	°C	-75	ASTM D746
<b>Additive</b>					
Slip		None		None	Producer Method
Antiblock	ppm	4000	ppm	4000	Producer Method

Notes: Data obtained from 1.25 mil (32 micron) film produced on a blown film line with an 8" (203 mm) die, 350°F (177°C) melt temperature, 2:1 BUR, 0.025" die gap at 150 lbs/hr. These are typical property values not to be construed as specification limits.

LDPE  
LOW DENSITY  
POLYETHYLENE  
QBL002A

# Qualitene<sup>TM</sup>

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## APPLICATION:

Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Liner Film; Shrink Film; Specialty Film; Textile Packaging Film

## PROCESSING METHOD:

Blown Film

## PROCESSING TECHNIQUES:

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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