

TECHNICAL DATASHEET

LDPE QBL002

PRODUCT DESCRIPTION

QBL002 is a low density homopolymer resin selected by customers for use in shrink packaging, bundling, pallet wrap and heavy-duty liner applications. QBL002 is also selected by customers for use in blow moulding squeeze bottles and other specialty applications. Excellent bubble stability, melt strength, impact and shrinkage are key attributes of QBL002.

TYPICAL PROPERTIES	ENGLISH		SI		TEST METHOD
	UNIT	VALUE	UNIT	VALUE	
Physical					
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 ³	0.920	g/cm ³	0.920	ASTM D1505
Product Density, (23 °C)	g/cm ³	0.920	g/cm ³	0.920	ASTM D1505
Mechanical					
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
Film					
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
Hardness					
Shore Hardness, (Shore D)		45		45	ASTM D2240
Thermal					
Vicat Softening Temperature	°F	199	°C	93	ASTM D1525
Low Temperature Brittleness, F ₅₀	°F	-103	°C	-75	ASTM D746
Additive					
Slip		None		None	Producer Method
Antiblock		None		None	Producer Method

Notes: Data obtained from 1.25 mil (32 micron) film produced on a blown film line with a 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
QBL002

QualiteneTM

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APPLICATION:

Agriculture Film; Bags & Pouches; Bottles and Vials; Bottles for Consumer Goods; Bottles for Industrial Use; Can Liners; Clear Containers; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Liner Film; Opaque Containers; Shrink Film; Specialty Film; Textile Packaging Film

PROCESSING METHOD:

Blown Film; Extrusion Blow Moulding

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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