Qualitene™

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TECHNICAL DATASHEET

LDPE QBL070

PRODUCT DESCRIPTION

QBL070 is selected by customers for use in both extrusion coating and injection moulding applications. It is a high speed, lightweight coating resin for use with paper, films and other base stocks. This resin can be extruded at line speeds of 1200 ft/min or higher. Products made from materials coated with QBL070 typically include general-purpose flexible packaging and snack food packaging.

QBL070 yields excellent adhesion and heat-sealing characteristics and low neck-in. When it is used in injection moulding applications, it exhibits an excellent balance of toughness and softness, with excellent dimensional stability. Typical injection moulding applications include housewares, toys, containers and novelty items.

APPLICATION:

Bags & Pouches; Caps & Closures; Colour Concentrates; Food Packaging Film; Lamination Film; Sealants

TYPICAL PROPERTIES	ENGLISH		SI		TEST METHOD
	UNIT	VALUE	UNIT	VALUE	
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	g/10 min	7.0	g/10 min	7.0	ASTM D1238
Density, (23 °C)	g/cm³	0.918	g/cm³	0.918	ASTM D1505
Mechanical					
Flexural Modulus (1% Secant)	psi	31900	MPa	233	ASTM D790
Tensile Strength at Break	psi	1730	MPa	12.1	ASTM D638
Tensile Strength at Yield	psi	1430	MPa	10.1	ASTM D638
Tensile Elongation at Break	%	550	%	550	ASTM D638
Tensile Elongation at Yield	%	19	%	19	ASTM D638
Hardness					
Shore Hardness, (Shore D)		50		50	ASTM D2240
Thermal					
Vicat Softening Temperature	°F	186	°C	86	ASTM D1525
Processing Parameters					
Melt Temperature	°F	<=625	°C	<=329	

Notes: Tensile properties were run with a crosshead speed of 20 inches/min or 500 mm/min.
Flexural Modulus properties were run with a crosshead speed of 0.5 inches/min or 12.5 mm/min.
Mechanical tensile properties were run on a Type IV specimen.
These are typical property values not to be construed as specification limits.

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POLYETHYLENE
QBL070

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PROCESSING METHOD:

Extrusion Coating; Injection 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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LOW DENSITY POLYETHYLENE QBL070