

TECHNICAL DATASHEET

LLDPE QB28100

PRODUCT DESCRIPTION

QB28100 is a pelletized LLDPE copolymer resin selected by customers for injection moulding. Typical applications include lids and thin-walled items that require high flow and short cycle times. QB28100 exhibits excellent flow, warp resistance and surface appearance.

APPLICATION:

Lids

PROCESSING METHOD:

Injection Moulding

TYPICAL PROPERTIES	ENGLISH		SI		TEST METHOD
	UNIT	VALUE	UNIT	VALUE	
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	g/10 min	100	g/10 min	100	ASTM D1238
Density, (23 °C)	g/cm ³	0.929	g/cm ³	0.929	ASTM D1505
Spiral Flow	in	23.2	cm	59.0	Producer Method
Mechanical					
Flexural Modulus (1% Secant)	psi	80000	MPa	550	ASTM D790
Flexural Modulus (2% Secant)	psi	69000	MPa	480	ASTM D790
Tensile Strength at Break, (23 °C)	psi	1700	MPa	12	ASTM D638
Tensile Strength at Yield, (23 °C)	psi	2200	MPa	15	ASTM D638
Tensile Elongation at Yield, (23 °C)	%	11	%	11	ASTM D638
Hardness					
Shore Hardness, (Shore D)		60		60	ASTM D2240
Thermal					
Vicat Softening Temperature	°F	182	°C	83	ASTM D1525
Low Temperature Brittleness, F ₅₀	°F	-22	°C	-30	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	°F	124	°C	51	ASTM D648

Notes: Tensile properties were run with a crosshead speed of 2 inches/min or 50 mm/min.
 Flexural Modulus properties were run with a crosshead speed of 0.5 inches/min or 12.5 mm/min.
 Spiral Flow measures the number of inches of flow produced when molten resin is injected into a long, spiral channel (0.0625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440 °F.
 Deflection Temperature Under Load and Low Temperature Brittleness data are for control and development work and are not intended for use in design or predicting performance at elevated or sub-ambient temperatures.
 These are typical property values not to be construed as specification limits.

LINEAR LOW DENSITY
 POLYETHYLENE
 QB28100

QualiteneTM

ENABLING A SUSTAINABLE FUTURE

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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