

TECHNICAL DATASHEET

LLDPE QB28033

PRODUCT DESCRIPTION

QB28033 exhibits an excellent balance of processability, stiffness, impact strength and ESCR. Typical applications include housewares, trash cans, and closures.

APPLICATION:

Housewares; Industrial Packaging; Outdoor and Power Tools; Sports, Leisure & Toys; Trash Cans

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	33	g/10 min	33	ASTM D1238
Density, (23 °C)	g/cm ³	0.925	g/cm ³	0.925	ASTM D1505
Spiral Flow	in	15.8	cm	40.1	Producer Method
Mechanical					
Flexural Modulus (1% Secant)	psi	66000	MPa	460	ASTM D790
Flexural Modulus (2% Secant)	psi	57000	MPa	390	ASTM D790
Tensile Strength at Break, (23 °C)	psi	1200	MPa	8	ASTM D638
Tensile Strength at Yield, (23 °C)	psi	2100	MPa	14	ASTM D638
Tensile Elongation at Yield, (23 °C)	%	12	%	12	ASTM D638
Hardness					
Shore Hardness, (Shore D)		58		58	ASTM D2240
Thermal					
Vicat Softening Temperature	°F	188	°C	87	ASTM D1525
Low Temperature Brittleness, F ₅₀	°F	<-105	°C	<-76	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	°F	115	°C	46	ASTM D648

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.
 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
 QB28033

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.

LLDPE
LINEAR LOW DENSITY
POLYETHYLENE
QB28033