

TECHNICAL DATASHEET

LLDPE QB28085

PRODUCT DESCRIPTION

QB28085 is a pelletized LLDPE resin for injection moulding applications such as lids, caps and closures, containers and other items needing rigidity and good appearance. QB28085 can be used in operations requiring fast cycle times, as well.

APPLICATION:

Caps & Closures; Containers; Housewares; Lids; Outdoor and Power Tools

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	85	g/10 min	85	ASTM D1238
Density, (23 °C)	g/cm ³	0.928	g/cm ³	0.928	ASTM D1505
Spiral Flow	in	22.0	cm	56.0	Producer Method
Mechanical					
Flexural Modulus (1% Secant)	psi	80000	MPa	560	ASTM D790
Flexural Modulus (2% Secant)	psi	70000	MPa	480	ASTM D790
Tensile Strength at Break, (23 °C)	psi	1800	MPa	13	ASTM D638
Tensile Strength at Yield, (23 °C)	psi	2400	MPa	17	ASTM D638
Tensile Elongation at Yield, (23 °C)	%	10	%	10	ASTM D638
Hardness					
Shore Hardness, (Shore D)		54		54	ASTM D2240
Thermal					
Vicat Softening Temperature	°F	185	°C	85	ASTM D1525
Low Temperature Brittleness, F ₅₀	°F	-75	°C	-60	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	°F	121	°C	50	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
QB28085