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ExxonMobil® LL 1002YB Cast

Product Description: LL 1002YB is an LLDPE resin designed for cast films. It offers high gloss and excellent drawdown in both blown and cast film applications. LL 1002YB may also be used as a blend partner with LDPE resins to improve film properties and processability.
Availability: Africa & Middle East, Asia Pacific, Europe, Latin America, North America and South America

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ExxonMobil method
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	7.58 MPa	1100 psi	ASTM D882
Film Tensile Strength at Yield, TD	6.48 MPa	940 psi	ASTM D882
Film Elongation at Break, MD	420 %	420 %	ASTM D882
Film Elongation at Break, TD	830 %	830 %	ASTM D882
Puncture Energy	2.37 J	1.75 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	430 g	430 g	ASTM D1922
Dart Drop Test	<= 50.0 g	<= 0.110 lb	ASTM D1709A
Film Tensile Strength at Break, MD	62.1 MPa	9000 psi	ASTM D882
Film Tensile Strength at Break, TD	24.8 MPa	3600 psi	ASTM D882
1% Secant Modulus, MD	117 MPa	17000 psi	ASTM D882
1% Secant Modulus, TD	131 MPa	19000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 120 °C	<= 248 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	1.7 %	1.7 %	ASTM D1003
Gloss	98 %	98 %	45°; ASTM D2457

Descriptive Properties		
Puncture Force	8 lbf	ExxonMobil Method