

ExxonMobil® LD 071.LQ

L Product Description: LD 071 Series case wrap film resins combine good processability with excellent strength and good film optics for bundling applications requiring proper shrink performance, toughness, burn-through resistance and clarity.

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ExxonMobil Method
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Antiblock Level	4000 ppm	4000 ppm	
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Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.8 MPa	1710 psi	ASTM D882
Film Elongation at Break, MD	130 %	130 %	ASTM D882
Film Elongation at Break, TD	540 %	540 %	ASTM D882
Puncture Energy	0.859 J	0.633 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	510 g	510 g	ASTM D1922
Elmendorf Tear Strength TD	140 g	140 g	ASTM D1922
Dart Drop Test	160 g	0.353 lb	ASTM D1709
Film Tensile Strength at Break, MD	25.5 MPa	3700 psi	ASTM D882
Film Tensile Strength at Break, TD	22.1 MPa	3200 psi	ASTM D882
1% Secant Modulus, MD	234 MPa	34000 psi	ASTM D882
1% Secant Modulus, TD	290 MPa	42000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	112 °C	234 °F	Peak Melting Temperature; ExxonMobil Method

Optical Properties	Metric	English	Comments
Haze	9.6 %	9.6 %	ASTM D1003
Gloss	57 %	57 %	45°; ASTM D2457