

ExxonMobil LD 051.LJ Shrink Film Resin (discontinued **)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

LD 051 blown film resins are designed for demanding heavy duty film applications, and combine excellent strength properties with outstanding processability. Used in heavy duty shipping bags and shrink film. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LD-051LJ-Shrink-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ExxonMobil Method
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.25 g/10 min	0.25 g/10 min	ExxonMobil Method
Antiblock Level	4000 ppm	4000 ppm	
Slip Level	500 ppm	500 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.7 MPa	1550 psi	at 2% offset; ASTM D882
Film Tensile Strength at Yield, TD	9.86 MPa	1430 psi	at 2% offset; ASTM D882
Film Elongation at Break, MD	130 %	130 %	ASTM D882
Film Elongation at Break, TD	590 %	590 %	ASTM D882
Film Elongation at Yield, MD	6.7 %	6.7 %	ASTM D882
Film Elongation at Yield, TD	5.0 %	5.0 %	ASTM D882
Elmendorf Tear Strength MD	330 g	330 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength, MD	6.50 g/micron	165 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.36 g/micron	60.0 g/mil	ASTM D1922
Dart Drop	3.54 g/micron	90.0 g/mil	ASTM D1709
Dart Drop Test	180 g	0.397 lb	ASTM D1709
Film Tensile Strength at Break, MD	25.3 MPa	3670 psi	ASTM D882
Film Tensile Strength at Break, TD	24.3 MPa	3530 psi	ASTM D882
1% Secant Modulus, MD			ASTM D882

Mechanical Properties	186 MPa Metric	27000 psi English	Comments
1% Secant Modulus, TD	245 MPa	35500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	109 °C	229 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	97.0 °C	207 °F	ExxonMobil Method
Vicat Softening Point	92.8 °C	199 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	20.5 %	20.5 %	ASTM D1003
Gloss	32 %	32 %	45°; ASTM D2457

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