

Dow LDPE 535I Low Density Polyethylene, Liner Grade

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

Material Notes:

DOW LDPE 535I resin is a barefoot general purpose liner resin with medium clarity for medium modulus packaging applications. This material complies with U.S.FDA regulation 21 CFR 177.1520(c) 2.1 for food contact applications. The regulation should be consulted for complete details. Film properties below based on a film thickness of 40 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-LDPE-535I-Low-Density-Polyethylene-Liner-Grade.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	
Thickness	40.0 microns	1.57 mil	
Melt Flow	1.9 g/10 min @Load 2.16 kg	1.9 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	10.0 MPa	1450 psi	Molded property
Film Tensile Strength at Yield, MD	12.4 MPa	1800 psi	
Film Tensile Strength at Yield, TD	12.6 MPa	1830 psi	
Tensile Strength, Yield	12.4 MPa	1800 psi	Molded property
Film Elongation at Break, MD	420 %	420 %	
Film Elongation at Break, TD	585 %	585 %	
Elongation at Break	500 %	500 %	Molded value
Coefficient of Friction	1.0	1.0	
Elmendorf Tear Strength MD	145 g	145 g	
Elmendorf Tear Strength TD	210 g	210 g	
Elmendorf Tear Strength, MD	3.60 g/micron	91.4 g/mil	
Elmendorf Tear Strength, TD	5.30 g/micron	135 g/mil	
Dart Drop	1.60 g/micron	40.6 g/mil	
Film Tensile Strength at Break, MD	26.7 MPa	3870 psi	
Film Tensile Strength at Break, TD	19.5 MPa	2830 psi	

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	
Gloss	50 %	50 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	177 °C	351 °F	Film extrusion temperature

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