

Dow DOWLEX™ 2101 Linear Low Density Polyethylene, Blown Film Grade

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

Material Notes:

DOWLEX® 2101 Polyethylene resin, a general purpose blown film extrusion resin, is an excellent choice for high speed, thin gauge film applications. It contains medium levels of both slip additive and antiblock additive. It complies with U.S. FDA Regulation 21 CFR 177.1520 (c) 3.2 (a) for food packaging applications. The regulation should be consulted for complete details. Film properties below based on a film thickness of 25 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-2101-Linear-Low-Density-Polyethylene-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	
Thickness	25.0 microns	0.984 mil	
Melt Flow	1.6 g/10 min @Load 2.16 kg	1.6 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 8.1.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	22.1 MPa	3210 psi	Molded property
Film Tensile Strength at Yield, MD	11.7 MPa	1700 psi	
Film Tensile Strength at Yield, TD	12.8 MPa	1860 psi	
Tensile Strength, Yield	13.8 MPa	2000 psi	Molded property
Film Elongation at Break, MD	560 %	560 %	
Film Elongation at Break, TD	700 %	700 %	
Elongation at Break	800 %	800 %	Molded value
Elmendorf Tear Strength MD	230 g	230 g	
Elmendorf Tear Strength TD	600 g	600 g	
Elmendorf Tear Strength, MD	9.20 g/micron	234 g/mil	
Elmendorf Tear Strength, TD	24.0 g/micron	610 g/mil	
Dart Drop	5.20 g/micron	132 g/mil	
Film Tensile Strength at Break, MD	34.5 MPa	5000 psi	
Film Tensile Strength at Break, TD	29.0 MPa	4210 psi	

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	
Gloss	48 %	48 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	209 °C	408 °F	Film extrusion temperature

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