

Dow DOWLEX™ 2037 Linear Low Density Polyethylene, Cast Film Grade

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

Material Notes:

DOWLEX® 2037 Polyethylene is a cast film extrusion resin for high stiffness film applications. It complies with U.S. FDA regulation 21 CFR 177.1520 c 3.2a when used unmodified and according to good manufacturing practices for food contact applications. The regulation should be consulted for complete details. Film properties below based on a film thickness of 30 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-2037-Linear-Low-Density-Polyethylene-Cast-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	
Thickness	30.0 microns	1.18 mil	
Melt Flow	2.5 g/10 min @Load 2.16 kg	2.5 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 7.2.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	18.3 MPa	2650 psi	Molded property
Film Tensile Strength at Yield, MD	15.2 MPa	2200 psi	
Film Tensile Strength at Yield, TD	18.6 MPa	2700 psi	
Tensile Strength, Yield	20.0 MPa	2900 psi	Molded property
Film Elongation at Break, MD	420 %	420 %	
Film Elongation at Break, TD	460 %	460 %	
Elongation at Break	400 %	400 %	Molded value
Elmendorf Tear Strength MD	70 g	70 g	
Elmendorf Tear Strength TD	470 g	470 g	
Elmendorf Tear Strength, MD	2.30 g/micron	58.4 g/mil	
Elmendorf Tear Strength, TD	15.7 g/micron	399 g/mil	
Dart Drop	1.70 g/micron	43.2 g/mil	
Film Tensile Strength at Break, MD	35.2 MPa	5110 psi	
Film Tensile Strength at Break, TD	31.0 MPa	4500 psi	

Optical Properties	Metric	English	Comments
Haze	3.5 %	3.5 %	
Gloss	85 %	85 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	274 °C	525 °F	Film extrusion temperature

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