

Dow DOWLEX™ 2032 Linear Low Density Polyethylene, Blown Film Grade

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

Material Notes:

DOWLEX® 2032 Polyethylene resin is a general purpose liner resin having improved thermal stability over a broad range of processing conditions. It is an outstanding choice for thin gauge, medium stiffness blown film applications. It complies with FDA regulation 21 CFR 177.1520 (c) 3.2 when used unmodified and according to good manufacturing practices for food contact applications, including packing or holding food during cooking. 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-2032-Linear-Low-Density-Polyethylene-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	
Thickness	30.0 microns	1.18 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg	2.0 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 7.8.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	24.1 MPa	3500 psi	Molded property
Film Tensile Strength at Yield, MD	11.7 MPa	1700 psi	
Film Tensile Strength at Yield, TD	11.7 MPa	1700 psi	
Tensile Strength, Yield	14.5 MPa	2100 psi	Molded property
Film Elongation at Break, MD	500 %	500 %	
Film Elongation at Break, TD	790 %	790 %	
Elongation at Break	800 %	800 %	Molded value
Coefficient of Friction	0.60	0.60	
Elmendorf Tear Strength MD	270 g	270 g	
Elmendorf Tear Strength TD	425 g	425 g	
Elmendorf Tear Strength, MD	9.00 g/micron	229 g/mil	
Elmendorf Tear Strength, TD	14.2 g/micron	361 g/mil	
Dart Drop	3.00 g/micron	76.2 g/mil	
Film Tensile Strength at Break, MD	62.1 MPa	9010 psi	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	37.9 MPa	5500 psi	

Optical Properties	Metric	English	Comments
Haze	1.2 %	1.2 %	
Gloss	90 %	90 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	204 °C	399 °F	Film extrusion temperature

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