

Dow DOWLEX™ 2036A Linear Low Density Polyethylene, Cast Film Grade

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

Material Notes:

DOWLEX® 2036A Polyethylene resin is a cast film polymer having improved thermal stability for high stiffness film applications. It complies with U.S. FDA regulation 21 CFR 177.1520 c 3.2a 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-2036A-Linear-Low-Density-Polyethylene-Cast-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	
Thickness	25.0 microns	0.984 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 7.1.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.2 MPa	2200 psi	Molded property
Film Tensile Strength at Yield, MD	17.9 MPa	2600 psi	
Film Tensile Strength at Yield, TD	17.9 MPa	2600 psi	
Tensile Strength, Yield	20.0 MPa	2900 psi	Molded property
Film Elongation at Break, MD	480 %	480 %	
Film Elongation at Break, TD	740 %	740 %	
Elongation at Break	600 %	600 %	Molded value
Elmendorf Tear Strength MD	25 g	25 g	
Elmendorf Tear Strength TD	700 g	700 g	
Elmendorf Tear Strength, MD	1.00 g/micron	25.4 g/mil	
Elmendorf Tear Strength, TD	28.0 g/micron	711 g/mil	
Dart Drop	2.00 g/micron	50.8 g/mil	
Film Tensile Strength at Break, MD	56.5 MPa	8190 psi	
Film Tensile Strength at Break, TD	34.5 MPa	5000 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	119 °C	246 °F	

Optical Properties	Metric	English	Comments
Haze	3.2 %	3.2 %	
Gloss	88 %	88 %	45°

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

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