

Dow DOWLEX™ 2035 Linear Low Density Polyethylene, Cast Film Grade

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

Material Notes:

DOWLEX® 2035 Polyethylene resin is for cast film extrusion. It offers excellent tear strength, toughness and good processability. It complies with FDA regulation 21 CFR 177.1520(c) 3.2a when used unmodified and according to good manufacturing practices for food contact applications. It has been approved by USDA for packaging meat and poultry products. 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-2035-Linear-Low-Density-Polyethylene-Cast-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	
Thickness	30.0 microns	1.18 mil	
Melt Flow	6.0 g/10 min @Load 2.16 kg	6.0 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 7.6.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.9 MPa	2310 psi	Molded property
Film Tensile Strength at Yield, MD	9.00 MPa	1310 psi	
Film Tensile Strength at Yield, TD	8.30 MPa	1200 psi	
Tensile Strength, Yield	11.7 MPa	1700 psi	Molded property
Film Elongation at Break, MD	660 %	660 %	
Film Elongation at Break, TD	800 %	800 %	
Elongation at Break	770 %	770 %	Molded value
Modulus of Elasticity	0.0110 GPa	1.60 ksi	Molded sample
	0.255 GPa	37.0 ksi	2% secant modulus
Elmendorf Tear Strength MD	300 g	300 g	
Elmendorf Tear Strength TD	540 g	540 g	
Elmendorf Tear Strength, MD	10.0 g/micron	254 g/mil	
Elmendorf Tear Strength, TD	18.0 g/micron	457 g/mil	
Dart Drop	4.00 g/micron	102 g/mil	

Film Tensile Strength at Break, MD Mechanical Properties	46.2 MPa Metric	6700 psi English	Comments
Film Tensile Strength at Break, TD	33.8 MPa	4900 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	97.2 °C	207 °F	

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	
Gloss	95 %	95 %	45°

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

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