

Dow LDPE 5011 Low Density Polyethylene, Clear Film Grade

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

Material Notes:

DOW LDPE 5011, a barefoot resin used for bakery film and other packaging applications that require optical clarity. This material complies with U.S.FDA regulation 21 CFR 177.1520(c) 2.1 for food contact applications. The regulation should be consulted for complete details. Film properties below based on a film thickness of 40 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-LDPE-5011-Low-Density-Polyethylene-Clear-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	
Thickness	40.0 microns	1.57 mil	
Melt Flow	1.9 g/10 min @Load 2.16 kg	1.9 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.3 MPa	1490 psi	
Film Tensile Strength at Yield, TD	10.3 MPa	1490 psi	
Film Elongation at Break, MD	380 %	380 %	
Film Elongation at Break, TD	540 %	540 %	
Coefficient of Friction	0.70	0.70	
Elmendorf Tear Strength MD	470 g	470 g	
Elmendorf Tear Strength TD	315 g	315 g	
Elmendorf Tear Strength, MD	11.8 g/micron	300 g/mil	
Elmendorf Tear Strength, TD	7.90 g/micron	201 g/mil	
Dart Drop	2.10 g/micron	53.3 g/mil	
Film Tensile Strength at Break, MD	24.1 MPa	3500 psi	
Film Tensile Strength at Break, TD	15.9 MPa	2310 psi	

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	
Gloss	64 %	64 %	45°

Optical Properties	Metric	English	Comments
Transmission, Visible	90%	90%	clear, thickness not quantified

Processing Properties	Metric	English	Comments
Processing Temperature	191 °C	376 °F	Film extrusion temperature

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