

Dow LDPE 682I Low Density Polyethylene, Film Grade

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

Material Notes:

DOW LDPE 682I barefoot resin is used for shrink, frozen food, and heavy duty film applications. 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-682I-Low-Density-Polyethylene-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	0.70 g/10 min	0.70 g/10 min	
	@Load 2.16 kg	@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	360 %	360 %	
Film Elongation at Break, TD	530 %	530 %	
Coefficient of Friction	0.70	0.70	
Elmendorf Tear Strength MD	270 g	270 g	
Elmendorf Tear Strength TD	290 g	290 g	
Elmendorf Tear Strength, MD	6.80 g/micron	173 g/mil	
Elmendorf Tear Strength, TD	7.30 g/micron	185 g/mil	
Dart Drop	3.50 g/micron	88.9 g/mil	
Film Tensile Strength at Break, MD	27.6 MPa	4000 psi	
Film Tensile Strength at Break, TD	19.3 MPa	2800 psi	

Optical Properties	Metric	English	Comments
Haze	8.5 %	8.5 %	
Gloss	64 %	64 %	45°

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	218 °C	424 °F	Film extrusion temperature

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