

Dow LDPE 170A Low Density Polyethylene, Blown Film Grade

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

Material Notes:

DOW LDPE 170A resin is used for shrink and heavy duty blown film applications where optical clarity is desired. It contains medium level of antiblock additives. It complies with U.S. FDA regulation 21 CFR 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-170A-Low-Density-Polyethylene-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	
Thickness	40.0 microns	1.57 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg	0.70 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	
Film Tensile Strength at Yield, TD	11.4 MPa	1650 psi	
Film Elongation at Break, MD	325 %	325 %	
Film Elongation at Break, TD	510 %	510 %	
Coefficient of Friction	0.50	0.50	
Elmendorf Tear Strength MD	390 g	390 g	
Elmendorf Tear Strength TD	290 g	290 g	
Elmendorf Tear Strength, MD	9.80 g/micron	249 g/mil	
Elmendorf Tear Strength, TD	7.30 g/micron	185 g/mil	
Dart Drop	2.80 g/micron	71.1 g/mil	
Film Tensile Strength at Break, MD	23.4 MPa	3390 psi	
Film Tensile Strength at Break, TD	17.9 MPa	2600 psi	

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	
Gloss	58 %	58 %	45°

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	216 °C	421 °F	Film extrusion temperature

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