

Dow LDPE 493A Low Density Polyethylene, Film Grade

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

Material Notes:

DOW LDPE 493A resin, is a high strength, general purpose resin used for shipping sack, industrial liner and produce film applications. DOW LDPE 493A resin can be blended with most linear low density polyethylene resins to enhance bubble stability. It contains low levels of slip additive and medium levels of antiblock additive. It 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-493A-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	0.80 g/10 min	0.80 g/10 min	
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.4 MPa	1650 psi	
Film Tensile Strength at Yield, TD	11.4 MPa	1650 psi	
Film Elongation at Break, MD	230 %	230 %	
Film Elongation at Break, TD	570 %	570 %	
Coefficient of Friction	0.30	0.30	
Elmendorf Tear Strength MD	420 g	420 g	
Elmendorf Tear Strength TD	170 g	170 g	
Elmendorf Tear Strength, MD	10.5 g/micron	267 g/mil	
Elmendorf Tear Strength, TD	4.30 g/micron	109 g/mil	
Dart Drop	3.30 g/micron	83.8 g/mil	
Film Tensile Strength at Break, MD	24.2 MPa	3510 psi	
Film Tensile Strength at Break, TD	20.3 MPa	2940 psi	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	204 °C Metric	399 °F English	Film extrusion temperature Comments
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