

Dow LDPE 527A Low Density Polyethylene, Blown Film Grade

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

Material Notes:

DOW LDPE 527A is a general purpose blown film extrusion resin for use in medium duty liner film applications and other packaging applications. It contains high levels of antiblock additive. 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-527A-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	1.0 g/10 min @Load 2.16 kg	1.0 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	
Film Tensile Strength at Yield, TD	9.70 MPa	1410 psi	
Film Elongation at Break, MD	370 %	370 %	
Film Elongation at Break, TD	510 %	510 %	
Coefficient of Friction	0.50	0.50	
Elmendorf Tear Strength MD	430 g	430 g	
Elmendorf Tear Strength TD	280 g	280 g	
Elmendorf Tear Strength, MD	10.8 g/micron	274 g/mil	
Elmendorf Tear Strength, TD	7.00 g/micron	178 g/mil	
Dart Drop	2.50 g/micron	63.5 g/mil	
Film Tensile Strength at Break, MD	21.4 MPa	3100 psi	
Film Tensile Strength at Break, TD	15.2 MPa	2200 psi	

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	

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

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