Dow DOWLEX™ 2070D Linear Low Density Polyethylene, Blown Film Grade

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

Material Notes:

DOWLEX® 2070D Polyethylene resin is a fully formulated linear low density polyethylene resin offering high strength and low gel properties for blown film food packaging applications. DOWLEX 2070D resin is designed to run on narrow die-gap equipment. It contains medium levels of slip additive and antiblock additive. This material complies with U.S. FDA Regulation 21 CFR 177.1520 (c) 3.1 (a) for food packaging applications. The regulation should be consulted for complete details.Film properties below based on a film thickness of 38 µm. Data provided by Dow Chemical.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-DOWLEX-2070D-Linear-Low-Density-Polyethylene-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in³	
Thickness	38.0 microns	1.50 mil	
Melt Flow	1.0 g/10 min @Load 2.16 kg	1.0 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 8.5.

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.0 MPa	1740 psi	
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	
Coefficient of Friction	0.17	0.17	
Elmendorf Tear Strength MD	560 g	560 g	
Elmendorf Tear Strength TD	1050 g	1050 g	
Elmendorf Tear Strength, MD	14.7 g/micron	373 g/mil	
Elmendorf Tear Strength, TD	27.6 g/micron	701 g/mil	
Dart Drop	6.60 g/micron	168 g/mil	
Film Tensile Strength at Break, MD	36.0 MPa	5220 psi	
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	105 °C	221 °F	

Optical Properties	Metric	English	Comments

Optical Properties	Metric	English	Comments
Gloss	39 %	39 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	226 °C	439 °F	Film extrusion temperature

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