

Dow DOWLEX™ 2045.02AC Linear Low Density Polyethylene, Blown Film Grade

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

Material Notes:

DOWLEX® 2045.02AC Polyethylene resin is a high stability blown film extrusion resin that provides excellent tear strength and outstanding toughness. It contains high level of slip additive and medium level of antiblock additive. It complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.2 (a) for food contact applications, and has been approved by USDA for packaging meat and poultry products. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-204502AC-Linear-Low-Density-Polyethylene-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	
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.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	26.2 MPa	3800 psi	Molded property
Film Tensile Strength at Yield, MD	10.3 MPa	1490 psi	
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	
Tensile Strength, Yield	12.4 MPa	1800 psi	Molded property
Film Elongation at Break, MD	650 %	650 %	
Film Elongation at Break, TD	800 %	800 %	
Elongation at Break	1000 %	1000 %	Molded value
Coefficient of Friction	0.20	0.20	
Elmendorf Tear Strength MD	370 g	370 g	Unspecified film thickness
Elmendorf Tear Strength TD	800 g	800 g	Unspecified film thickness
Dart Drop Test	250 g	0.551 lb	
Film Tensile Strength at Break, MD	44.8 MPa	6500 psi	
Film Tensile Strength at Break, TD	35.2 MPa	5110 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	106 °C	223 °F	

Optical Properties	Metric	English	Comments
Haze	19 %	19 %	
Gloss	32 %	32 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	232 °C	450 °F	Film extrusion temperature

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