

Dow DOWLEX™ 2042A Linear Low Density Polyethylene, Food Grade

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

Material Notes:

DOWLEX® 2042A Polyethylene resin offers good tear strength, medium stiffness and outstanding toughness for films used in food contact applications. When used unmodified and processed according to good manufacturing practices, this resin is technically suitable for food contact end uses. This material complies with U.S. FDA Regulation 21 CFR 177.1520 c 3.2 (a) for food packaging 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-DOWLEX-2042A-Linear-Low-Density-Polyethylene-Food-Grade.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in³	
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	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	14.5 MPa	2100 psi	
Film Tensile Strength at Yield, TD	17.2 MPa	2490 psi	
Tensile Strength, Yield	16.5 MPa	2390 psi	Molded property
Film Elongation at Break, MD	700 %	700 %	
Film Elongation at Break, TD	800 %	800 %	
Elongation at Break	900 %	900 %	Molded value
Modulus of Elasticity	0.413 GPa	59.9 ksi	Molded Sample 2% Secant Modulus
Coefficient of Friction	0.50	0.50	
Elmendorf Tear Strength MD	190 g	190 g	
Elmendorf Tear Strength TD	790 g	790 g	
Elmendorf Tear Strength, MD	4.80 g/micron	122 g/mil	
Elmendorf Tear Strength, TD	19.8 g/micron	503 g/mil	
Dart Drop	5.50 g/micron	140 g/mil	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	43.4 MPa	6290 psi	
Film Tensile Strength at Break, TD	33.8 MPa	4900 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	112 °C	234 °F	

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	
Gloss	47 %	47 %	45°

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

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