

## Dow DOWLEX™ 2045.02 Linear Low Density Polyethylene, Heavy Duty Film Grade

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

### Material Notes:

DOWLEX® 2045.02 Polyethylene resin is a premier film resin for general packaging applications ranging from heavy duty applications to high speed, thin gauge applications. It contains high level of slip additive and medium level of antiblock additive. This resin complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.2 (a) for food contact applications. The regulation should be consulted for complete details. Film properties below based on a film thickness of 25 µm. Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-DOWLEX-204502-Linear-Low-Density-Polyethylene-Heavy-Duty-Film-Grade.php](http://www.lookpolymers.com/polymer_Dow-DOWLEX-204502-Linear-Low-Density-Polyethylene-Heavy-Duty-Film-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in³	
Thickness	25.0 microns	0.984 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	11.0 MPa	1600 psi	
Film Tensile Strength at Yield, TD	12.1 MPa	1750 psi	
Tensile Strength, Yield	12.4 MPa	1800 psi	Molded property
Film Elongation at Break, MD	520 %	520 %	
Film Elongation at Break, TD	670 %	670 %	
Elongation at Break	1000 %	1000 %	Molded value
Elmendorf Tear Strength MD	260 g	260 g	
Elmendorf Tear Strength TD	640 g	640 g	
Elmendorf Tear Strength, MD	10.4 g/micron	264 g/mil	
Elmendorf Tear Strength, TD	25.6 g/micron	650 g/mil	
Dart Drop	8.40 g/micron	213 g/mil	
Film Tensile Strength at Break, MD	51.4 MPa	7450 psi	
Film Tensile Strength at Break, TD	37.2 MPa	5400 psi	

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

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	
Gloss	55 %	55 %	45°

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

## Contact Songhan Plastic Technology Co.,Ltd.

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