

## Dow DOWLEX™ 2077 Linear Low Density Polyethylene, Food Grade

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

### Material Notes:

DOWLEX® 2077 Polyethylene resin is a fully formulated linear low density polyethylene resin designed for use in food packaging applications. This blown film resin is designed to run on narrow die-gap equipment. It contains high level of slip additive and medium level of 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 25 µm. Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-DOWLEX-2077-Linear-Low-Density-Polyethylene-Food-Grade.php](http://www.lookpolymers.com/polymer_Dow-DOWLEX-2077-Linear-Low-Density-Polyethylene-Food-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in³	
Melt Flow	0.85 g/10 min @Load 2.16 kg	0.85 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	11.0 MPa	1600 psi	
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	
Coefficient of Friction	0.17	0.17	
Film Tensile Strength at Break, MD	32.0 MPa	4640 psi	
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	103 °C	217 °F	

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	
Gloss	54 %	54 %	45°

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

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