

Dow DOWLEX™ NG 2085 Linear Low Density Polyethylene, Ethylene-Octene Copolymer

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

Material Notes:

Next Generation DOWLEX® NG 2085 resin is an ethylene-octene copolymer offering superior impact and tensile strength for down-gauged consumer liner film applications. It 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-NG-2085-Linear-Low-Density-Polyethylene-Ethylene-Octene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	
Thickness	25.0 microns	0.984 mil	
Melt Flow	0.95 g/10 min @Load 2.16 kg	0.95 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 8.

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.90 MPa	1440 psi	
Film Tensile Strength at Yield, TD	10.1 MPa	1460 psi	
Film Elongation at Break, MD	540 %	540 %	
Film Elongation at Break, TD	680 %	680 %	
Secant Modulus, MD	0.146 GPa	21.2 ksi	Film value
Secant Modulus, TD	0.1545 GPa	22.41 ksi	Film value
Elmendorf Tear Strength MD	350 g	350 g	
Elmendorf Tear Strength TD	665 g	665 g	
Elmendorf Tear Strength, MD	14.0 g/micron	356 g/mil	
Elmendorf Tear Strength, TD	26.6 g/micron	676 g/mil	
Dart Drop	29.0 g/micron	737 g/mil	
Film Tensile Strength at Break, MD	58.0 MPa	8410 psi	
Film Tensile Strength at Break, TD	46.0 MPa	6670 psi	

Processing Properties	Metric	English	Comments
Processing Temperature	224 °C	435 °F	Film extrusion temperature

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