

Dow DOWLEX™ 2085G Polyethylene Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

DOWLEX™ 2085G is an ethylene-octene copolymer designed for general purpose thin gauge film applications. It is perfect for high strength consumer trash bags/liners. This product can be used in other applications that require toughness and also offer good melt strength for high throughput rates. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-2085G-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	20.3 microns	0.800 mil	
Melt Flow	0.85 g/10 min	0.85 g/10 min	ASTM D1238
Antiblock Level	5000 ppm	5000 ppm	
Slip Level	900 ppm	900 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.4 MPa	1650 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.51 MPa	1525 psi	ASTM D882
Film Elongation at Break, MD	370 %	370 %	ASTM D882
Film Elongation at Break, TD	620 %	620 %	ASTM D882
Elmendorf Tear Strength MD	300 g	300 g	ASTM D1922
Elmendorf Tear Strength TD	475 g	475 g	ASTM D1922
Elmendorf Tear Strength, MD	14.8 g/micron	375 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	23.376 g/micron	593.75 g/mil	ASTM D1922
Dart Drop Test	400 g	0.882 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	46.9 MPa	6800 psi	ASTM D882
Film Tensile Strength at Break, TD	42.7 MPa	6200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	121 °C	250 °F	Dow Method (DSC)

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