

Dow AFFINITY™ PL 1880 Polyolefin Plastomer

Category : Polymer , Film , Thermoplastic , Elastomer, TPE

Material Notes:

AFFINITY® PL 1880 polyolefin plastomer is an ethylene alpha-olefin resin designed for use in a variety of demanding packaging applications including high-speed, form-fill seal products. AFFINITY PL 1880 polymer offers excellent ultimate hot tack strength and low temperature seal initiation even through contamination in the package seal in addition to outstanding optics and abuse resistance.

AFFINITY PL 1880 polymer has excellent compatibility with other polyolefins, allowing efficient blending and coextrusion. AFFINITY PF 1140 polymer complies with FDA regulation 21 CFR 177.1520c3.1b, which allows for its use in direct food contact applications. Film properties below based on a film thickness of 51 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-PL-1880-Polyolefin-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	
Thickness	51.0 microns	2.01 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 9.

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	570 %	570 %	
Film Elongation at Break, TD	560 %	560 %	
Elmendorf Tear Strength MD	355 g	355 g	
Elmendorf Tear Strength TD	500 g	500 g	
Elmendorf Tear Strength, MD	7.00 g/micron	178 g/mil	
Elmendorf Tear Strength, TD	9.80 g/micron	249 g/mil	
Dart Drop	>= 16.3 g/micron	>= 414 g/mil	
Film Tensile Strength at Break, MD	49.4 MPa	7160 psi	
Film Tensile Strength at Break, TD	26.2 MPa	3800 psi	

Optical Properties	Metric	English	Comments
Haze	1.1 %	1.1 %	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	85.0 °C Metric	185 °F English	Seal initiation temperature Comments
	209 °C	408 °F	Film extrusion temperature

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