

Dow AFFINITY™ PL 1850 Polyolefin Plastomer

Category : Polymer , Film , Thermoplastic , Elastomer, TPE

Material Notes:

AFFINITY® PL 1850 polyolefin plastomer is an ethylene alpha-olefin resin designed to provide blown and cast film products with low temperature sealability, excellent optics and good abuse resistance. It finds applications as a sealant layer in multilayer film structures for dry and liquid packaging. AFFINITY PL 1850 has excellent compatibility with other polyolefins, allowing efficient blending and coextrusion. It 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 25 µm. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-PL-1850-Polyolefin-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	
Thickness	25.0 microns	0.984 mil	
Melt Flow	3.0 g/10 min @Load 2.16 kg	3.0 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	5.70 MPa	827 psi	
Film Tensile Strength at Yield, TD	4.80 MPa	696 psi	
Film Elongation at Break, MD	440 %	440 %	
Film Elongation at Break, TD	720 %	720 %	
Secant Modulus, MD	0.0690 GPa	10.0 ksi	Film value
Secant Modulus, TD	0.0712 GPa	10.3 ksi	Film value
Elmendorf Tear Strength MD	300 g	300 g	
Elmendorf Tear Strength TD	480 g	480 g	
Elmendorf Tear Strength, MD	12.0 g/micron	305 g/mil	
Elmendorf Tear Strength, TD	19.2 g/micron	488 g/mil	
Dart Drop	>= 33.2 g/micron	>= 843 g/mil	
Film Tensile Strength at Break, MD	41.5 MPa	6020 psi	
Film Tensile Strength at Break, TD	46.1 MPa	6690 psi	

Optical Properties	Metric	English	Comments
Haze	0.40 %	0.40 %	
Gloss	95 %	95 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	94.0 °C	201 °F	Seal initiation temperature
	274 °C	525 °F	Film extrusion temperature

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