

Dow AFFINITY™ PL 1840 Polyolefin Plastomer

Category : Polymer , Film , Thermoplastic , Elastomer, TPE

Material Notes:

AFFINITY® PL 1840 polyolefin plastomer is an ethylene alpha-olefin resin designed to provide blown film products with low temperature sealability, excellent puncture resistance, outstanding blown film optics, and good organoleptic properties. AFFINITY PL 1840 polymer has good clarity and toughness. It finds applications as sealant layer in multilayer film structures, and in liquid and dry food pouch packaging structures. It also offers excellent performance for profile extrusion of tubing. AFFINITY PL 1840 polymer 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. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-PL-1840-Polyolefin-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.908 g/cc	0.0328 lb/in ³	
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 10.

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	94	94	
Tensile Strength, Ultimate	15.6 MPa	2260 psi	Molded property
Tensile Strength, Yield	6.80 MPa	986 psi	
Film Elongation at Break, MD	660 %	660 %	
Film Elongation at Break, TD	730 %	730 %	
Elongation at Break	360 %	360 %	Molded value
Flexural Modulus	0.141 GPa	20.5 ksi	
Film Tensile Strength at Break, MD	55.0 MPa	7980 psi	ASTM D882
Film Tensile Strength at Break, TD	52.7 MPa	7640 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	97.0 °C	207 °F	

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