

Dow AFFINITY™ PF 1140 Polyolefin Plastomer

Category : Polymer , Film , Thermoplastic , Elastomer , TPE

Material Notes:

AFFINITY® PF 1140 polyolefin plastomer is an ethylene alpha-olefin resin designed for use in a variety of demanding applications including high-speed, form-fill seal products, display films and fresh produce bags. AFFINITY PF 1140 polymer offers excellent low temperature seal initiation and ultimate hot tack strength in addition to excellent abuse resistance, outstanding optics and high oxygen transmission rates. AFFINITY PF 1140 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-PF-1140-Polyolefin-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.895 g/cc	0.0323 lb/in ³	
Thickness	51.0 microns	2.01 mil	
Melt Flow	1.6 g/10 min @Load 2.16 kg	1.6 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 10.2.

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	600 %	600 %	
Film Elongation at Break, TD	710 %	710 %	
Elmendorf Tear Strength MD	300 g	300 g	
Elmendorf Tear Strength TD	670 g	670 g	
Elmendorf Tear Strength, MD	5.90 g/micron	150 g/mil	
Elmendorf Tear Strength, TD	13.1 g/micron	333 g/mil	
Dart Drop	>= 16.3 g/micron	>= 414 g/mil	
Film Tensile Strength at Break, MD	49.0 MPa	7110 psi	
Film Tensile Strength at Break, TD	43.4 MPa	6290 psi	

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	81.0 °C Metric	178 °F English	Seal initiation temperature Comments
	204 °C	399 °F	Film extrusion temperature

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