

Dow AFFINITY™ PF 1140G Polyolefin Plastomer (POP)

Category : Polymer , Film , Thermoplastic , Polyolefin

Material Notes:

AFFINITY™ PF 1140G is an ethylene alpha-olefin resin produced via INSITE™ Technologies. It is designed to be used in a variety of demanding applications including form-fill-seal packaging and fresh produce bags. This resin has excellent compatibility with other polyolefins, allowing efficient blending and co-extrusion. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-PF-1140G-Polyolefin-Plastomer-POP.php

Physical Properties	Metric	English	Comments
Density	0.8965 g/cc	0.03239 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	1.6 g/10 min	1.6 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	5.79 MPa	840 psi	ASTM D882
Film Tensile Strength at Yield, TD	6.34 MPa	920 psi	ASTM D882
Film Elongation at Break, MD	690 %	690 %	ASTM D882
Film Elongation at Break, TD	700 %	700 %	ASTM D882
Secant Modulus, MD	0.0730 GPa	10.6 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.0730 GPa	10.6 ksi	2% Secant; ASTM D882
Impact	18.8	18.8	[lb_f]; Puncture Resistance Force; Dow Method
	245	245	[ft-lbf/in³]; Puncture Resistance; Dow Method
Puncture Energy	8.18 J	6.03 ft-lb	Dow Method
Elmendorf Tear Strength MD	470 g	470 g	Modified rectangular test specimen; ASTM D1922
Elmendorf Tear Strength TD	620 g	620 g	Modified rectangular test specimen; ASTM D1922
Elmendorf Tear Strength, MD	9.25 g/micron	235 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	12.2 g/micron	310 g/mil	ASTM D1922
Dart Drop Test	>= 850 g	>= 1.87 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	50.3 MPa	7290 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	39.3 MPa	5700 psi	ASTM D882
Heat Seal Strength Initiation Temperature	81.0 °C	178 °F	2 lb/in heat seal strength; 0.5 sec dwell, 40 psi bar pressure, pull speed 10 (in./min.); Dow Method

Thermal Properties	Metric	English	Comments
Melting Point	96.0 °C	205 °F	Dow Method (DSC)
Vicat Softening Point	77.0 °C	171 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	ASTM D1003
Gloss	134 %	134 %	20°; ASTM D2457
Transmission, Visible	70 %	70 %	Clarity; ASTM D1746

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China