

Dow AFFINITY™ PF 1146G Polyolefin Plastomer (POP)

Category : Polymer , Film , Thermoplastic , Polyolefin

Material Notes:

AFFINITY™ PF 1140G Polyolefin Plastomer (POP) is produced via INSITE™ Technologies. It is designed for high speed packaging applications requiring low seal initiation temperature and good machinability. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-PF-1146G-Polyolefin-Plastomer-POP.php

Physical Properties	Metric	English	Comments
Density	0.8996 g/cc	0.03250 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Antiblock Level	6000 ppm	6000 ppm	
Slip Level	3500 ppm	3500 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.43 MPa	933 psi	ASTM D882
Film Tensile Strength at Yield, TD	5.98 MPa	868 psi	ASTM D882
Film Elongation at Break, MD	554 %	554 %	ASTM D882
Film Elongation at Break, TD	602 %	602 %	ASTM D882
Secant Modulus, MD	0.0510 GPa	7.40 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.0550 GPa	7.98 ksi	2% Secant; ASTM D882
Impact	11	11	[lb_f]; Puncture Resistance Force; Dow Method
	116	116	[ft-lbf/in³]; Puncture Resistance; Dow Method
Puncture Energy	3.56 J	2.62 ft-lb	Dow Method
Coefficient of Friction	<= 0.20	<= 0.20	1.0 mil sealant layer in a co-extruded film
Elmendorf Tear Strength MD	378 g	378 g	ASTM D1922
Elmendorf Tear Strength TD	461 g	461 g	ASTM D1922
Elmendorf Tear Strength, MD	7.44 g/micron	189 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	9.075 g/micron	230.5 g/mil	ASTM D1922

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	47.3 MPa	6860 psi	ASTM D882
Film Tensile Strength at Break, TD	42.12 MPa	6109 psi	ASTM D882
Heat Seal Strength Initiation Temperature	75.0 °C	167 °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	95.0 °C	203 °F	Dow Method (DSC)
Vicat Softening Point	76.0 °C	169 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	5.5 %	5.5 %	ASTM D1003
Gloss	77 %	77 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	Clarity; ASTM D1746

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