

Dow AFFINITY™ HF 1030 Polyolefin Plastomer

Category : Polymer , Film , Thermoplastic , Elastomer , TPE

Material Notes:

AFFINITY® HF 1030 polyolefin plastomer is an ethylene alpha-olefin resin designed to provide cast embossed film products with high modulus for machinability, excellent drawdown at high line speeds, and exceptional resistance to draw resonance. It can bring important value to a variety of personal care and medical applications as high performance monolayer films or coextruded films. AFFINITY HF 1030 polymer has excellent compatibility with other polyolefins, allowing efficient blending and coextrusion. AFFINITY HF 1030 polymer complies with FDA regulation 21 CFR 177.1520c3.2a, 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-HF-1030-Polyolefin-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	
Thickness	25.0 microns	0.984 mil	
Melt Flow	2.5 g/10 min @Load 2.16 kg	2.5 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 9.5.

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.4 MPa	1650 psi	
Film Tensile Strength at Yield, TD	10.9 MPa	1580 psi	
Film Elongation at Break, MD	530 %	530 %	
Film Elongation at Break, TD	580 %	580 %	
Secant Modulus, MD	0.200 GPa	29.0 ksi	Film value
Secant Modulus, TD	0.214 GPa	31.0 ksi	Film value
Elmendorf Tear Strength MD	42 g	42 g	
Elmendorf Tear Strength TD	118 g	118 g	
Elmendorf Tear Strength, MD	1.70 g/micron	43.2 g/mil	
Elmendorf Tear Strength, TD	4.70 g/micron	119 g/mil	
Film Tensile Strength at Break, MD	29.6 MPa	4290 psi	
Film Tensile Strength at Break, TD	22.8 MPa	3310 psi	

Processing Properties	Metric	English	Comments
Processing Temperature	274 °C	525 °F	Film extrusion temperature

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