

Eastman 1810F Polyethylene (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Polyethylene 1810F is a fractional-melt low-density formulation with no slip or antiblock. It is suggested for film applications requiring high impact strength, high tear strength and very good optical properties, such as packaging for frozen food. List of Applications: Food packaging Food-contact applications low density polyethylene 1810F may lawfully be used in food-contact applications under FDA regulations at 21 CFR 177.1520(c)(2.2). Information supplied by the manufacturer. Information from manufacturer data sheet. Eastman Chemical Company sold its polyethylene business to Westlake Chemical Corporation in Dec. 2006. This grade no longer appears in the Westlake product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-1810F-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D4883
Moisture Vapor Transmission	18.6 cc-mm/m ² -24hr-atm	47.2 cc-mil/100 in ² -24hr-atm	ASTM F372
Oxygen Transmission	200 cc-mm/m ² -24hr-atm	508 cc-mil/100 in ² -24hr-atm	ASTM D1434
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	200 %	200 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Secant Modulus, MD	0.220 GPa	31.9 ksi	1% Secant; ASTM D882
Secant Modulus, TD	0.274 GPa	39.7 ksi	1% Secant; ASTM D882
Coefficient of Friction	0.70	0.70	ASTM D1894
Elmendorf Tear Strength MD	550 g	550 g	
Elmendorf Tear Strength TD	130 g	130 g	
Elmendorf Tear Strength, MD	14.5 g/micron	368 g/mil	ASTM D1922

Mechanical Properties	Metric	English	Comments
Dart Drop	2.90 g/micron	73.7 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	ASTM D1003
Gloss	70 %	70 %	at 45°; ASTM D2457
Transmission, Visible	90 %	90 %	ASTM D1746

Descriptive Properties	Value	Comments
Process	Film	

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