

Eastman 1840F Polyethylene (discontinued **)

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

Material Notes:

Polyethylene 1840F is a low-density formulation with no slip or antiblock. It is suggested for film applications where enhanced processability and high clarity are required. It is characterized by good tear strength, impact strength, wide heat-sealing range, and printability. This product may be used as a component of packages used for holding food during cooking. List of Applications: Food packaging, Household bags, Household wraps. Low density polyethylene 1840F 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-1840F-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	32.0 microns	1.26 mil	
Melt Flow	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	24.0 MPa	3480 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	300 %	300 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Secant Modulus, MD	0.172 GPa	24.9 ksi	1% Secant; ASTM D882
Secant Modulus, TD	0.193 GPa	28.0 ksi	1% Secant; ASTM D882
Coefficient of Friction	>= 1.0	>= 1.0	ASTM D1894
Elmendorf Tear Strength MD	320 g	320 g	
Elmendorf Tear Strength TD	170 g	170 g	

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, TD	5.30 g/micron	135 g/mil	ASTM D1922
Dart Drop	2.30 g/micron	58.4 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	20.0 MPa	2900 psi	ASTM D882
Film Tensile Strength at Break, TD	16.0 MPa	2320 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	94.0 °C	201 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.5 %	4.5 %	ASTM D1003
Gloss	75 %	75 %	at 45°; ASTM D2457
Transmission, Visible	95 %	95 %	ASTM D1746

Descriptive Properties	Value	Comments
Process	Film	

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