

Eastman E6838-014F Polyethylene (discontinued **)

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

Material Notes:

E6838-014F is a low density formulation that contains low slip and medium antiblock levels. It is suggested for film applications that require clarity. List of Applications: Food packaging Food-contact applications E6838-014F meets the requirements of FDA regulations at 21 CFR 177.1520(c)(2.2) and may be used as a component of packages used for holding food during cooking. However, the polymer thickness in the form in which it contacts food shall not exceed 0.005 inches and contact is limited to non-alcoholic food because of a regulatory limitation for an adjuvant substance in this formulation. 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-E6838-014F-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D4883
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	21.0 MPa	3050 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	350 %	350 %	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	0.179 GPa	26.0 ksi	1% Secant; ASTM D882
Coefficient of Friction	0.30	0.30	ASTM D1894
Elmendorf Tear Strength MD	380 g	380 g	
Elmendorf Tear Strength TD	200 g	200 g	
Elmendorf Tear Strength, MD	11.9 g/micron	302 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	6.30 g/micron	160 g/mil	ASTM D1922
Dart Drop	2.50 g/micron	63.5 g/mil	ASTM D1709A

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882

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

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	70 %	70 %	at 45°; ASTM D2457
Transmission, Visible	25 %	25 %	ASTM D1746

Descriptive Properties	Value	Comments
Process	Film	

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