

Eastman E6838-975F Polyethylene (discontinued **)

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

Material Notes:

E6838-975F is a low density formulation with medium slip and medium antiblock. The formula is used in general purpose packaging where impact strength and processability are important. End-use film applications include bread bags, produce bags, and industrial liners.

List of Applications: Bread bags, Food packaging, Industrial liners, Produce bags.

E6838-975F 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-E6838-975F-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	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
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	0.15	0.15	ASTM D1894
Elmendorf Tear Strength MD	500 g	500 g	
Elmendorf Tear Strength TD	130 g	130 g	

Elmendorf Tear Strength, MD Mechanical Properties	13.2 g/micron Metric	335 g/mil English	ASTM D1922 Comments
Elmendorf Tear Strength, TD	3.40 g/micron	86.4 g/mil	ASTM D1922
Dart Drop	3.00 g/micron	76.2 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	8.0 %	8.0 %	ASTM D1003
Gloss	65 %	65 %	at 45°; ASTM D2457
Transmission, Visible	90 %	90 %	ASTM D1746

Descriptive Properties	Value	Comments
Process	Film	

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