

Eastman E6838-796F Polyethylene (discontinued **)

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

Material Notes:

E6838-796F is a low density formulation with no slip or antiblock. It is suggested for film applications requiring a good balance of properties, such as converter film for industrial packaging, general-purpose packaging, and disposable diaper film. As supplied by Eastman, E6838-796F may lawfully be used in food-contact applications under the FDA regulations at 21 CFR177.1520 (c)(2.2). Users must make their own determination that their use of this product is safe, legal, and technically suitable for their intended applications. Unless otherwise noted, all tests are run at 23°C and 50% RH. Extrusion conditions used to produce blown film: 1.9:1 blow-up ratio. 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-E6838-796F-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	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, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	250 %	250 %	ASTM D882
Film Elongation at Break, TD	750 %	750 %	ASTM D882
Secant Modulus, MD	0.186 GPa	27.0 ksi	1% Secant; ASTM D882
Secant Modulus, TD	0.220 GPa	31.9 ksi	1% Secant; ASTM D882
Coefficient of Friction	>= 2.0	>= 2.0	ASTM D1894
Elmendorf Tear Strength MD	400 g	400 g	
Elmendorf Tear Strength TD	140 g	140 g	
Elmendorf Tear Strength, MD	10.5 g/micron	267 g/mil	ASTM D1922

Mechanical Properties	Metric	English	Comments
Dart Drop	2.60 g/micron	66.0 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	ASTM D882
Film Tensile Strength at Break, TD	19.0 MPa	2760 psi	ASTM D882

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

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	70 %	70 %	at 45°; ASTM D2457
Transmission, Visible	95 %	95 %	ASTM D1746

Descriptive Properties	Value	Comments
Process	Film	

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