

Eastman E6838-923F Polyethylene (discontinued **)

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

Material Notes:

E6838-923F is a low density formulation with medium slip and medium antiblock. It is suggested for film applications that require heat-sealing treated-to-treated film surfaces and where good clarity is important. Common applications include bread bags, fresh produce bags, and convertor film requiring printability. As supplied by Eastman Chemical, Polyethylene E6838-923F may lawfully be used in food-contact applications under the FDA regulations at 21 CFR177.1520 (c)(2.2). An additive in this formulation limits the use of E6838-923F to nonalcoholic foods, and the average thickness of such polymers in the form in which they contact food shall not exceed 0.0050 inch. Users must make their own determination that their use of this product is safe, legal, and technically suitable for their intended applications. CO2 permeability 200 cc-mm/m²-24h-atm (506 cc-mil/100in²-24h-atm). 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-E6838-923F-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
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	23.0 MPa	3340 psi	ASTM D 882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D 882
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	0.15	0.15	ASTM D1894
Elmendorf Tear Strength, MD	10.1 g/micron	257 g/mil	ASTM D1922

Elmendorf Tear Strength, TD Mechanical Properties	5.40 g/micron Metric	137 g/mil English	ASTM D1922 Comments
Dart Drop	2.36 g/micron	59.9 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	23.0 MPa	3340 psi	ASTM D882
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	5.5 %	5.5 %	ASTM D1003
Gloss	68 %	68 %	at 45°; ASTM D2457
Transmission, Visible	30 %	30 %	ASTM D1746

Descriptive Properties	Value	Comments
Process	Film	

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