

Eastman E6838-964F Polyethylene (discontinued **)

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

Material Notes:

E6838-964F is a low density formulation with medium slip and medium antiblock. It is suggested for film applications that require a good balance of physical and optical properties. List of Applications: Food-contact applications Food packaging E6838-964F 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-E6838-964F-Polyethylene-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Density | 0.921 g/cc | 0.0333 lb/in ³ | ASTM D4883 |
| Thickness | 38.0 microns | 1.50 mil | |
| Melt Flow | 1.3 g/10 min @Load 2.16 kg, Temperature 190 °C | 1.3 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|---------------|------------|----------------------|
| Film Tensile Strength at Yield, MD | 30.0 MPa | 4350 psi | ASTM D882 |
| 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 | 750 % | 750 % | ASTM D882 |
| Secant Modulus, MD | 0.193 GPa | 28.0 ksi | 1% Secant; ASTM D882 |
| Secant Modulus, TD | 0.240 GPa | 34.8 ksi | 1% Secant; ASTM D882 |
| Coefficient of Friction | 0.60 | 0.60 | 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 |
| Elmendorf Tear Strength, TD | 3.70 g/micron | 94.0 g/mil | ASTM D1922 |
| Dart Drop | 3.20 g/micron | 81.3 g/mil | ASTM D1709A |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------|----------|-----------|
| Film Tensile Strength at Break, TD | 21.0 MPa | 3050 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 | 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