

Eastman D4036-F Polyethylene (discontinued **)

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

Material Notes:

D4036-F is a low density formulation with high slip and high antiblock. It is suggested for film applications requiring a good balance of properties, such as converter film for industrial and general-purpose packaging. List of Applications: FilmsPackagingD4036-F 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-D4036-F-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 | 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 | 26.0 MPa | 3770 psi | ASTM D882 |
| 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 | <= 0.10 | <= 0.10 | ASTM D1894 |
| Elmendorf Tear Strength MD | 400 g | 400 g | |
| Elmendorf Tear Strength TD | 140 g | 140 g | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|---------------|------------|-------------|
| Elmendorf Tear Strength, TD | 4.40 g/micron | 112 g/mil | ASTM D1922 |
| Dart Drop | 3.10 g/micron | 78.7 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 | 11 % | 11 % | ASTM D1003 |
| Gloss | 55 % | 55 % | at 45°; ASTM D2457 |
| Transmission, Visible | 80 % | 80 % | 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