

ExxonMobil LD 306.57 High Clarity, High Impact Film Resin

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

LD 306 Series films exhibit superior impact strength and heat sealability. Applications include food packaging and frozen food packaging. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LD-30657-High-Clarity-High-Impact-Film-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-------------------|
| Density | 0.924 g/cc | 0.0334 lb/in ³ | ExxonMobil Method |
| Vinyl Acetate Content | 5.5 % | 5.5 % | ExxonMobil Method |
| Thickness | 38.1 microns | 1.50 mil | |
| Melt Flow | 2.0 g/10 min | 2.0 g/10 min | ExxonMobil Method |
| Antiblock Level | 4000 ppm | 4000 ppm | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------------|-------------|-------------------------|
| Film Tensile Strength at Yield, MD | 7.72 MPa | 1120 psi | at 2% offset; ASTM D882 |
| Film Tensile Strength at Yield, TD | 7.24 MPa | 1050 psi | at 2% offset; ASTM D882 |
| Film Elongation at Break, MD | 190 % | 190 % | ASTM D882 |
| Film Elongation at Break, TD | 590 % | 590 % | ASTM D882 |
| Film Elongation at Yield, MD | 7.3 % | 7.3 % | ASTM D882 |
| Film Elongation at Yield, TD | 5.9 % | 5.9 % | ASTM D882 |
| Elmendorf Tear Strength MD | 160 g | 160 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 80 g | 80 g | ASTM D1922 |
| Elmendorf Tear Strength, MD | 4.197 g/micron | 106.6 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | 2.10 g/micron | 53.3 g/mil | ASTM D1922 |
| Dart Drop | 4.461 g/micron | 113.3 g/mil | ASTM D1709 |
| Dart Drop Test | 170 g | 0.375 lb | ASTM D1709 |
| Film Tensile Strength at Break, MD | 25.1 MPa | 3640 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 23.9 MPa | 3470 psi | ASTM D882 |
| 1% Secant Modulus, MD | | | ASTM D882 |

| Mechanical Properties | 127 MPa Metric | 18400 psi English | Comments |
|-----------------------|-------------------|----------------------|-----------|
| 1% Secant Modulus, TD | 146 MPa | 21200 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------|---------|---------|--|
| Melting Point | 102 °C | 216 °F | Peak Melting Temperature; ExxonMobil Method |
| Crystallization Temperature | 89.0 °C | 192 °F | ExxonMobil Method |
| Vicat Softening Point | 82.8 °C | 181 °F | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---------------------------------|
| Haze | 4.0 % | 4.0 % | ASTM D1003 |
| Gloss | 74 % | 74 % | 45°; ASTM D2457 |
| Transmission, Visible | 90 % | 90 % | clear; thickness not quantified |

| Descriptive Properties | Value | Comments |
|------------------------|--------------------|----------|
| Features | Thermal Stabilizer | |

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