

NOVA Chemicals Novapol® LF-Y824-C LDPE Clarity Film Resin (discontinued **)

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

Material Notes:

Features: High optical clarityExcellent processabilityExcellent shrink film characteristics Applications: High clarity shrink filmProduce and bakery filmTextile packaging filmInformation provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-LF-Y824-C-LDPE-Clarity-Film-Resin-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Density | 0.924 g/cc | 0.0334 lb/in ³ | ASTM D792 |
| Thickness | 38.0 microns | 1.50 mil | |
| Melt Flow | 0.75 g/10 min @Load 2.16 kg, Temperature 190 °C | 0.75 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------|-----------|------------------------------|
| Film Tensile Strength at Yield, MD | 11.5 MPa | 1670 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 11.5 MPa | 1670 psi | ASTM D882 |
| Film Elongation at Yield, MD | 350 % | 350 % | ASTM D882 |
| Film Elongation at Yield, TD | 535 % | 535 % | ASTM D882 |
| Coefficient of Friction | >= 0.40 | >= 0.40 | ASTM D1894 |
| Elmendorf Tear Strength MD | 200 g | 200 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 290 g | 290 g | ASTM D1922 |
| Dart Drop Test | 107 g | 0.236 lb | F₅₀; ASTM D1709/A |
| Film Tensile Strength at Break, MD | 24.0 MPa | 3480 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 20.0 MPa | 2900 psi | ASTM D882 |
| 1% Secant Modulus, MD | 210 MPa | 30500 psi | ASTM D882 |
| 1% Secant Modulus, TD | 230 MPa | 33300 psi | ASTM D882 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|------------|
| Haze | 6.0 % | 6.0 % | ASTM D1003 |

| <small>Gloss</small> Optical Properties | <small>75 %</small> Metric | <small>75 %</small> English | <small>at 45°: ASTM D2457</small> Comments |
|--|-------------------------------|--------------------------------|---|
| Transmission, Visible | 90 % | 90 % | clear; thickness not quantified |

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