

NOVA Chemicals Novapol® LA-0218-AF LDPE Foam Resin (discontinued **)

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

Material Notes:

Good heat sealing latitude, Moderate toughness, Easy processability
 Applications: Specifically designed for foam process, Blends with LLDPE
 Additives: Base resin
 Film properties are typical of blown film extruded at a blowup ratio of 2.5:1, but are dependent upon operating conditions.
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-LA-0218-AF-LDPE-Foam-Resin-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Density | 0.919 g/cc | 0.0332 lb/in ³ | ASTM D792 |
| Thickness | >= 25.0 microns | >= 0.984 mil | |
| Melt Flow | 2.1 g/10 min @Load 2.16 kg, Temperature 190 °C | 2.1 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|---------------|------------|------------------------------------|
| Film Tensile Strength at Yield, MD | 10.0 MPa | 1450 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 9.00 MPa | 1310 psi | ASTM D882 |
| Tensile Strength, Yield | 8.80 MPa | 1280 psi | ASTM D638 |
| Film Elongation at Break, MD | 350 % | 350 % | ASTM D882 |
| Film Elongation at Break, TD | 550 % | 550 % | ASTM D882 |
| Elongation at Break | 692 % | 692 % | ASTM D638 |
| Flexural Modulus | 0.291 GPa | 42.2 ksi | at 1%; ASTM D790 |
| Secant Modulus, MD | 0.150 GPa | 21.8 ksi | at 1%; ASTM D882 |
| Secant Modulus, TD | 0.175 GPa | 25.4 ksi | at 1%; ASTM D882 |
| Impact | 45 | 45 | J/mm; NOVA Chemicals Puncture test |
| Coefficient of Friction | >= 0.60 | >= 0.60 | ASTM D1894 |
| Elmendorf Tear Strength, MD | 5.60 g/micron | 142 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | 3.90 g/micron | 99.1 g/mil | ASTM D1922 |
| Dart Drop | 2.40 g/micron | 61.0 g/mil | F₅₀, ASTM D1709/A |

| Film Tensile Strength at Break, MD Mechanical Properties | 16.0 MPa Metric | 2320 psi English | ASTM D882 Comments |
|---|--------------------|---------------------|-----------------------|
| Film Tensile Strength at Break, TD | 16.0 MPa | 2320 psi | ASTM D882 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|--------------------|
| Haze | 12 % | 12 % | ASTM D1003 |
| Gloss | 40 % | 40 % | at 45°; ASTM D2457 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 170 - 190 °C | 338 - 374 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Blow Up Ratio | 2:1 | |

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