

## NOVA Chemicals Novapol® TF-0119-D Hexene LLDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

### Material Notes:

Film Properties. Features: Exceptional toughness, high strength with thin films. Applications: Thin films, premium trash bags, ice bags. Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Novapol-TF-0119-D-Hexene-LLDPE-Film-Resin.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-TF-0119-D-Hexene-LLDPE-Film-Resin.php)

| Physical Properties | Metric                                               | English                                              | Comments   |
|---------------------|------------------------------------------------------|------------------------------------------------------|------------|
| Density             | 0.918 g/cc                                           | 0.0332 lb/in <sup>3</sup>                            | ASTM D792  |
| Thickness           | 38.1 microns                                         | 1.50 mil                                             |            |
| Melt Flow           | 1.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 1.0 g/10 min<br>@Load 4.76 lb,<br>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 | 11.0 MPa      | 1600 psi  | ASTM D882          |
| Film Elongation at Break, MD       | 600 %         | 600 %     | ASTM D882          |
| Film Elongation at Break, TD       | 700 %         | 700 %     | ASTM D882          |
| Secant Modulus, MD                 | 0.170 GPa     | 24.7 ksi  | ASTM D882          |
| Secant Modulus, TD                 | 0.190 GPa     | 27.6 ksi  | ASTM D882          |
| Coefficient of Friction            | <= 0.20       | <= 0.20   | ASTM D1894         |
| Elmendorf Tear Strength, MD        | 11.8 g/micron | 300 g/mil | ASTM D1922         |
| Elmendorf Tear Strength, TD        | 25.5 g/micron | 648 g/mil | ASTM D1922         |
| Dart Drop                          | 7.00 g/micron | 178 g/mil | F 50; ASTM D1709/A |
| Film Tensile Strength at Break, MD | 37.0 MPa      | 5370 psi  | ASTM D882          |
| Film Tensile Strength at Break, TD | 32.0 MPa      | 4640 psi  | ASTM D882          |

| Optical Properties | Metric                          | English                           | Comments   |
|--------------------|---------------------------------|-----------------------------------|------------|
| Haze               | 19 %<br>@Thickness 0.0250<br>mm | 19 %<br>@Thickness 0.000984<br>in | ASTM D1003 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

95.1 TMM, ASTM D1894

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 195 - 220 °C | 383 - 428 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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