

## NOVA Chemicals Surpass® FPs317-A Octene sLLDPE Film Resin

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

## Material Notes:

Features: Exceptional puncture resistanceVery good tear propertiesLow gel levelExcellent optical properties Excellent elongation characteristics Easy to process, no drying required Applications: Cast stretch wrap Co-extrusion and laminationInformation provided by Nova Chemicals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Surpass-FPs317-A-Octene-sLLDPE-Film-Resin.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-FPs317-A-Octene-sLLDPE-Film-Resin.php)

| Physical Properties | Metric                                               | English                                              | Comments   |
|---------------------|------------------------------------------------------|------------------------------------------------------|------------|
| Density             | 0.917 g/cc                                           | 0.0331 lb/in <sup>3</sup>                            | ASTM D792  |
| Thickness           | 20.0 microns                                         | 0.787 mil                                            |            |
| Melt Flow           | 4.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 4.0 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 | 7.52 MPa | 1090 psi   | ASTM D882             |
| Film Tensile Strength at Yield, TD | 7.03 MPa | 1020 psi   | ASTM D882             |
| Film Elongation at Yield, MD       | 470 %    | 470 %      | ASTM D638             |
| Film Elongation at Yield, TD       | 780 %    | 780 %      | ASTM D882             |
| Elongation at Break                | 360 %    | 360 %      |                       |
| Puncture Energy                    | 1.66 J   | 1.22 ft-lb | Low Friction Puncture |
| Elmendorf Tear Strength MD         | 375 g    | 375 g      | ASTM D1922            |
| Elmendorf Tear Strength TD         | 535 g    | 535 g      | ASTM D1922            |
| Film Tensile Strength at Break, MD | 32.0 MPa | 4640 psi   | ASTM D882             |
| Film Tensile Strength at Break, TD | 25.0 MPa | 3630 psi   | ASTM D882             |
| 1% Secant Modulus, MD              | 100 MPa  | 14500 psi  | ASTM D882             |
| 1% Secant Modulus, TD              | 120 MPa  | 17400 psi  | ASTM D882             |

| Optical Properties | Metric | English | Comments   |
|--------------------|--------|---------|------------|
| Haze               | 0.80 % | 0.80 %  | ASTM D1003 |

|                    |        |         |                   |
|--------------------|--------|---------|-------------------|
| Gloss              | 85 %   | 85 %    | at 45° ASTM D2457 |
| Optical Properties | Metric | English | Comments          |

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