

**NOVA Chemicals Sclair® 14K3 Octene LMDPE Film Resin (discontinued \*\*)**

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , MDPE , Linear Medium Density Polyethylene (LMDPE), Film

**Material Notes:**

Film Properties. Features: Low gel, excellent optics, good moisture barrier. Applications: Cast overwrap film. Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Sclair-14K3-Octene-LMDPE-Film-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-14K3-Octene-LMDPE-Film-Resin-nbspdiscontinued-.php)

| Physical Properties | Metric                                               | English                                              | Comments   |
|---------------------|------------------------------------------------------|------------------------------------------------------|------------|
| Density             | 0.936 g/cc                                           | 0.0338 lb/in <sup>3</sup>                            | ASTM D792  |
| Melt Flow           | 4.8 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 4.8 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238 |

| Mechanical Properties              | Metric        | English    | Comments           |
|------------------------------------|---------------|------------|--------------------|
| Hardness, Shore D                  | 58            | 58         | ASTM D2240         |
| Film Tensile Strength at Yield, MD | 16.0 MPa      | 2320 psi   | ASTM D882          |
| Film Tensile Strength at Yield, TD | 15.0 MPa      | 2180 psi   | ASTM D882          |
| Film Elongation at Break, MD       | 850 %         | 850 %      | ASTM D882          |
| Film Elongation at Break, TD       | 1100 %        | 1100 %     | ASTM D882          |
| Secant Modulus, MD                 | 0.280 GPa     | 40.6 ksi   | ASTM D882          |
| Secant Modulus, TD                 | 0.310 GPa     | 45.0 ksi   | ASTM D882          |
| Elmendorf Tear Strength, MD        | 2.00 g/micron | 50.8 g/mil | ASTM D1922         |
| Elmendorf Tear Strength, TD        | 12.0 g/micron | 305 g/mil  | ASTM D1922         |
| Dart Drop                          | 1.00 g/micron | 25.4 g/mil | F 50; ASTM D1709/A |
| Film Tensile Strength at Break, MD | 42.0 MPa      | 6090 psi   | ASTM D882          |
| Film Tensile Strength at Break, TD | 30.0 MPa      | 4350 psi   | ASTM D882          |

| Thermal Properties    | Metric | English | Comments   |
|-----------------------|--------|---------|------------|
| Vicat Softening Point | 119 °C | 246 °F  | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|                    | 3.0 %  | 3.0 %   |          |

| Optical Properties | Metric<br>@ Thickness 0.0250<br>mm | English<br>@ Thickness 0.000984<br>in | Comments               |
|--------------------|------------------------------------|---------------------------------------|------------------------|
| Gloss              | 85 %                               | 85 %                                  | 45°; 1 mil; ASTM D1894 |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 260 - 290 °C | 500 - 554 °F |          |

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