

## NOVA Chemicals Sclair® 16A Butene HDPE Film Resin (discontinued \*\*)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Copolymer Film Grade

### Material Notes:

Film Properties. Features: Low gel, good barrier properties.Applications: Merchandising bags, lamination, co-extrusion.Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Sclair-16A-Butene-HDPE-Film-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-16A-Butene-HDPE-Film-Resin-nbspdiscontinued-.php)

| Physical Properties         | Metric  | English   | Comments   |
|-----------------------------|---|---|--|
| Density                     | 0.946 g/cc  | 0.0342 lb/in <sup>3</sup>                             | ASTM D792  |
| Moisture Vapor Transmission | 0.150 cc-mm/m <sup>2</sup> -24hr-atm                  | 0.381 cc-mil/100 in <sup>2</sup> -24hr-atm            | ASTM D1434   |
| Water Vapor Transmission    | 6.00 g/m <sup>2</sup> /day                            | 0.386 g/100 in <sup>2</sup> /day                      | ASTM D1434   |
| Oxygen Transmission         | 55.0 cc-mm/m <sup>2</sup> -24hr-atm                   | 140 cc-mil/100 in <sup>2</sup> -24hr-atm              | or 2200 cc/m <sup>2</sup> -atm-24 hr per 25 µm film; 38°C; 90% RH Difference |
| Melt Flow                   | 0.27 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.27 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238   |

| Mechanical Properties              | Metric         | English    | Comments           |
|------------------------------------|----------------|------------|--------------------|
| Hardness, Shore D                  | 60             | 60         | ASTM D2240         |
| Film Tensile Strength at Yield, MD | 21.0 MPa       | 3050 psi   | ASTM D882          |
| Film Tensile Strength at Yield, TD | 23.0 MPa       | 3340 psi   | ASTM D882          |
| Film Elongation at Break, MD       | 600 %          | 600 %      | ASTM D882          |
| Film Elongation at Break, TD       | 850 %          | 850 %      | ASTM D882          |
| Secant Modulus, MD                 | 0.590 GPa      | 85.6 ksi   | ASTM D882          |
| Secant Modulus, TD                 | 0.680 GPa      | 98.6 ksi   | ASTM D882          |
| Coefficient of Friction            | 0.30           | 0.30       | ASTM D1894         |
| Elmendorf Tear Strength, MD        | 1.00 g/micron  | 25.4 g/mil | ASTM D1922         |
| Elmendorf Tear Strength, TD        | 23.0 g/micron  | 584 g/mil  | ASTM D1922         |
| Dart Drop                          | 0.600 g/micron | 15.2 g/mil | F 50; ASTM D1709/A |
| Film Tensile Strength at Break, MD | 40.0 MPa       | 5800 psi   | ASTM D882          |
| Film Tensile Strength at Break, TD |                |            | ASTM D882          |

| Mechanical Properties | 38.0 MPa<br>Metric | 5510 psi<br>English | Comments   |
|-----------------------|--------------------|---------------------|------------|
| Thermal Properties    | Metric             | English             | Comments   |
| Vicat Softening Point | 121 °C             | 250 °F              | ASTM D1525 |
| Processing Properties | Metric             | English             | Comments   |
| Melt Temperature      | 220 - 230 °C       | 428 - 446 °F        |            |

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