

## NOVA Chemicals Sclair® 11G1 LLDPE Film Resin (discontinued \*\*)

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

### Material Notes:

Low gel, Excellent seal characteristics, Easy processability  
 Applications: Premium shrink film, Co-extrusion  
 Additives: Process stabilizer,  
 Polymer process aid  
 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-Sclair-11G1-LLDPE-Film-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-11G1-LLDPE-Film-Resin-nbspdiscontinued-.php)

| Physical Properties | Metric  | English   | Comments   |
|---------------------|---|---|------------|
| Density             | 0.920 g/cc  | 0.0332 lb/in <sup>3</sup>                             | ASTM D792  |
| Thickness           | 25.0 - 75.0 microns                                   | 0.984 - 2.95 mil                                      |            |
| Melt Flow           | 0.72 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.72 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       | 620 %         | 620 %     | ASTM D882                      |
| Film Elongation at Break, TD       | 920 %         | 920 %     | ASTM D882                      |
| Secant Modulus, MD                 | 0.180 GPa     | 26.1 ksi  | at 1%; ASTM D882               |
| Secant Modulus, TD                 | 0.200 GPa     | 29.0 ksi  | at 1%; ASTM D882               |
| Coefficient of Friction            | >= 1.0        | >= 1.0    | ASTM D1894                     |
| Elmendorf Tear Strength, MD        | 18.0 g/micron | 457 g/mil | ASTM D1922                     |
| Elmendorf Tear Strength, TD        | 26.0 g/micron | 660 g/mil | ASTM D1922                     |
| Dart Drop                          | 8.00 g/micron | 203 g/mil | F <sub>50</sub> , ASTM D1709/A |
| Film Tensile Strength at Break, MD | 43.0 MPa      | 6240 psi  | ASTM D882                      |
| Film Tensile Strength at Break, TD | 36.0 MPa      | 5220 psi  | ASTM D882                      |

| Optical Properties | Metric | English | Comments          |
|--------------------|--------|---------|-------------------|
| Haze               | 11 %   | 11 %    | 1 mil; ASTM D1003 |

| <b>Gloss</b><br>Optical Properties | <b>51 %</b><br>Metric | <b>51 %</b><br>English | <b>at 45°; 1 mil; ASTM D2457</b><br>Comments |
|------------------------------------|-----------------------|------------------------|--|
|------------------------------------|-----------------------|------------------------|--|

| <b>Processing Properties</b> | <b>Metric</b>     | <b>English</b>     | <b>Comments</b> |
|------------------------------|-------------------|--------------------|-----------------|
| Melt Temperature             | 220 - 230 °C      | 428 - 446 °F       |                 |
| Die Opening                  | 0.0900 - 0.220 cm | 0.0354 - 0.0866 in |                 |

| <b>Descriptive Properties</b> | <b>Value</b> | <b>Comments</b> |
|-------------------------------|--------------|-----------------|
| Blow Up Ratio                 | 2:1 to 3:1   |                 |

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