



SCLAIR® 17A Resin

Butene Copolymer HDPE Film Resin

| Property | ASTM ⁽¹⁾ | Typical Values ⁽²⁾ | |
|--------------------------------------|---------------------|--|--|
| Melt Index ⁽³⁾ | D 1238 | 0.45 g/10 min | |
| Density | D 792 | 0.950 g/cm ³ | |
| Hardness, Shore D | D 2240 | 67 | |
| | | METRIC UNITS | ENGLISH UNITS |
| Vicat Softening Point | D 1525 | 125 °C | 257 °F |
| Film Properties⁽⁴⁾ | | | |
| Thickness | | 38 µm | 1.5 mil |
| Tear Strength | MD D 1922 | 22 g | |
| | TD | 875 g | |
| Dart Drop Impact, F ₅₀ | D 1709/A | 40 g | |
| Low Friction Puncture ⁽⁵⁾ | | 23 J/mm | 5.2 in-lb/mil |
| Tensile Strength | MD D 882 | 45 MPa | 6,500 psi |
| | TD | 20 MPa | 2,900 psi |
| Yield Strength | MD D 882 | 22 MPa | 3,200 psi |
| | TD | 20 MPa | 2,900 psi |
| Elongation | MD D 882 | 650 % | 650 % |
| | TD | 750 % | 750 % |
| 1% Secant Modulus | MD D 882 | 630 MPa | 91,400 psi |
| | TD | 900 MPa | 130,500 psi |
| Coefficient of Friction | D 1894 | 0.24 | 0.24 |
| OTR ⁽⁶⁾ | D 3985 | 1,920 cm ³ /m ² /day | 124 cm ³ /100in ² /day |
| MVTR ⁽⁷⁾ | F 1249 | 4.0 g/m ² /day | 0.26 g/100 in ² /day |

Melt Index 0.45

Density 0.950

Slip None

Antiblock None

Features

- Low gel
- Good processability

Additives

- Processing antioxidant

Applications

- Co-extrusion
- Blending

(1) Properties designated have been determined using methods which are in accordance with, or substantially in accordance with, the specified testing standards.

(2) Typical Values represent average laboratory values and are intended as guides only, not as specifications.

(3) Condition 190°C/2.16 kg.

(4) Properties measured from film produced on a laboratory extruder with 4" die, 35-mil die gap, 3.5:1 blow up ratio, and melt temperature of 213°C.

(5) NOVA Chemicals test method.

(6) Oxygen Transmission Rate, 23°C (74°F), 0% RH, atmospheric pressure.

(7) Moisture Vapour Transmission Rate, 38°C (100°F), 100% RH, atmospheric pressure.



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Availability

SCLAIR 17A polyethylene resins are available in bulk hopper cars, hopper trucks, boxes, sea bulk containers, or bags. The product type and batch number are clearly marked on each container. Contact the NOVA Chemicals sales office nearest you for availability in your area.

Storage/Handling

SCLAIR 17A resin should be stored in a clean, dry place at ambient temperatures. Prolonged or improper storage can result in deterioration of product properties. Care should be taken when handling and transferring product to prevent foreign matter contamination. The NOVA Chemicals Safety Data Sheet (SDS) contains important safety information and should be reviewed before using the product.

Processing Conditions

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

Food Packaging Status

United States: SCLAIR 17A resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2a, and may thus be used in the United States as an article or component of an article intended for use in contact with food, without temperature or food-type restrictions, subject to technical suitability.

Other Countries: For regulatory compliance information for other countries, please contact your nearest NOVA Chemicals office.

Environmental

NOVA Chemicals polyethylene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of NOVA Chemicals' polyethylene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact NOVA Chemicals Technical Service for further information on recycling and disposal of NOVA Chemicals resins.



is the SPI resin code developed for high density polyethylene to identify material type for sorting and recycling purposes.

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