


Product Data Sheet

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/cm³	
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 cm³/m²/day	124 cm³/100in²/day
MVTR ⁽⁷⁾	F 1249	4.0 g/m²/day	0.26 g/100 in²/day

(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.

Melt Index 0.45
Density 0.950
Slip None
Antiblock None

Features

- Low gel
- Good processability

Additives

- Processing antioxidant

Applications

- Co-extrusion
- Blending

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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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