NOVA Chemicals
Polyethylene

Product Data Sheet

SCLAIR® 19K Resin

Homopolymer HDPE Film Resin

Property		ASTM (1)	Typical Values (2)			
Melt Index(3)		D 1238	0.95	g/10 min		
Density		D 792	0.958	g/cm³		
Hardness, Shore D		D 2240	68			
			METRIC UNITS		ENGLISH UNITS	
Vicat Softening Point		D 1525	131	°C	268	°F
Film Properties(4)						
Thickness			38	µm	1.5	mil
Tear Strength	MD	D 1922	26	g		
	TD		711	g		
Dart Drop Impact, F_{50}		D 1709/A	44	g		
Low Friction Puncture(5)			20	J/mm	4	in-lb/mil
Tensile Strength	MD	D 882	42	MPa	6,100	psi
	TD		40	MPa	5,800	psi
Yield Strength	MD	D 882	25	MPa	3,600	psi
	TD		27	MPa	3,900	psi
Elongation	MD	D 882	560	%	560	%
	TD		890	%	890	%
1% Secant Modulus	MD	D 882	840	MPa	121,800	psi
	TD		1,180	MPa	171,100	psi
OTR(6)		D 3985	1,488	cm³/m²/day	96	cm³/100in²/day
MVTR(7)		F 1249	2.64	g/m²/day	0.17	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) Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.
(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	0.95
Density	0.958
Slip	None
Antiblock	None

Features

- High stiffness
- Excellent barrier properties
- Low gel

Additives

- Processing antioxidant

Applications

- Barrier films
- Co-extrusion
- Dry food packaging
- Blending

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Availability

SCLAIR 19K 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 19K 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 19K 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) 2.2, 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 food-type restrictions, under Conditions of Use A–H (21 CFR 176.170(c) Table 2

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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