NOVA Chemicals
Polyethylene

Product Data Sheet

SCLAIR® 2114 Resin

Butene Copolymer LLDPE Injection Molding Resin

Property		ASTM (1)	Typical Values (2)			
Melt Index(3)		D 1238	52	g/10 min		
Density		D 792	0.925	g/cm³		
			METRIC UNITS		ENGLISH UNITS	
Snake Flow Number			36	cm	14	in
Yield Strength	(4)	D 638	10	MPa	1,500	psi
Elongation	(4)	D 638	100	%	100	%
Flexural Modulus		D 790	345	MPa	50,000	psi
Hardness, Shore D		D 2240	52		52	
Vicat Softening Point		D 1525	87	°C	189	°F
Low Temperature Brittleness Point		D 746	< -70	°C	< -94	°F
ESCR, (F_{50})	(5)	D 1693	< 10	h		

(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) Tensile pull speed 50 mm/min.

(5) Environmental stress crack resistance, Condition A, 100% Igepal.

Melt Index	52
Density	0.925

Features

- Excellent processability, cold temperature impact resistance and ESCR properties
- Outstanding flexibility and warpage resistance
- Good organoleptic properties and natural colour
- High surface gloss

Additives

- Processing antioxidant

Applications

- Thin wall lids for frozen food packing (ice cream, whipped dairy)
- Caps and closures, tamper evident, dairy applications
- Compounding

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Availability

SCLAIR 2114 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 2114 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 2114 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) 3.1a, and may thus be used in the United States as an article or component of an article intended for use in contact with food. This resin is subject to the specific limitation that it may not be used in articles used for packing or holding food during cooking.

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 low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

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