



SCLAIR® IG464-U Resin

Homopolymer HDPE Injection Molding Resin

Property	ASTM ⁽¹⁾	Typical Values ⁽²⁾	
Melt Index ⁽³⁾	D 1238	10.0 g/10 min	
Density	D 792	0.964 g/cm ³	
		METRIC UNITS	ENGLISH UNITS
Tensile Strength - Yield	⁽⁴⁾ D 638	33 MPa	4,800 psi
Tensile Strength - Break	⁽⁴⁾ D 638	20 MPa	2,900 psi
Elongation - Break	⁽⁴⁾ D 638	1,250 %	
Flexural Modulus - 1% Secant	⁽⁵⁾ D 790	1,700 MPa	246,600 psi
Durometer Hardness - Shore D	D 2240	68	
Vicat Softening Temperature	⁽⁶⁾ D 1525	131 °C	268 °F

Melt Index 10.0
Density 0.964

Features

- Superior stiffness allows for part thin-walling and improved stack strength
- Low viscosity for exceptional processability, shorter cycle times and energy savings
- Exceptional physical properties provide impact resistance for demanding applications
- Low warpage for improved part quality and reliability

Additives

- Processing antioxidant
- UV stabilizer

Applications

- Crates
- Pallets
- Totes
- Pails

(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) 50 mm/min (2 in/min), Type IV specimen.

(5) Procedure B.

(6) 10 N, 120°C/h.



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Availability

SCLAIR IG464-U 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 IG464-U 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 IG464-U resin complies with the specifications contained in the 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. This resin is subject to the specific limitation that it may contact food only at temperatures of 212°F and below (21 CFR 176.170(c) Table 2, conditions of use B–H).

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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