

Producer: NOVA CHEMICALS / UNITED STATES (U.S.A)

HDPE IG464C

Features

- Superior stiffness allows for part thinwalling 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

Melt Index 10.0

Density 0.964

Availability

SCLAIR 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.

Additives

- Antioxidant
- UV Stabilizer

Applications

- Crates
- Pallets
- Totes
- Pails

PROPERTY	TEST	VALUE	
		Compression Molded	Injection Molded
Melt Index (3)	D 1238	10.0 g/10 min	10.0 g/10 min
Density	D 792	0.964 g/cm ³	0.964 g/cm ³
Tensile Strength @ Yield (50 mm/min)	D 638	33 MPa (4 785 psi)	33 MPa (4 785 psi)
Tensile Strength @ Break (50 mm/min)		15 MPa (2 175 psi)	15 MPa (2 175 psi)
Elongation @ Yield (50 mm/min)	D 638	7 %	7 %
Elongation @ Break (50 mm/min)		100 %	100 %
Flexural Modulus @ 1%	D 790	1 700 MPa (246 565 psi)	1 700 MPa (246 565 psi)
Vicat Softening Point	D 1525	131 °C (268 °F)	131 °C (268 °F)
Hardness, Shore D	D 2240	68	68

(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.



Storage/Handling

IG464-U 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 material safety data sheet (MSDS) 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: IG464-U 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. IG464-U 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.



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