NOVA Chemicals®

polyethylene

product data sheet

# NOVAPOL® GF-0218-F Resin

## Butene Copolymer LLDPE Granular Masterbatch Resin

| Property | ASTM (1) | Typical Values (2) | |
|---|---|---|---|
| Melt Index (3) | D 1238 | 2.0 g/10 min | |
| Density | D 792 | 0.920 g/cm³ | |
| | | METRIC UNITS | ENGLISH UNITS |
| Melting Point (DSC) | (4) | 121 °C | 250 °F |

| Physical Properties (5,6) | | | |
|---|---|---|---|
| Yield Strength | D 638 | 11 MPa | 1,600 psi |
| Tensile Strength | D 638 | 24 MPa | 3,500 psi |
| Elongation at Yield | D 638 | 17 % | 17 % |
| Elongation | D 638 | 850 % | 850 % |
| 1% Flexural Secant Modulus | D 790 | 340 MPa | 49,300 psi |
| Hardness, Shore D | D 2240 | 53 | 53 |
| Vicat Softening Point | D 1525 | 100 °C | 212 °F |

(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) NOVA Chemicals test method.

(5) Physical properties measured on compression molded specimens.

(6) Tensile testing was conducted at a crosshead speed of 2 in/min.

**Melt Index** 2.0

**Density** 0.920

### Features

- Granular LLDPE, improved dispersion
- Does not contain any Kosher-offending constituent substances
- Excellent processability
- Excellent lot-to-lot consistency

### Additives

- Processing antioxidant

### Applications

Carrier resin for the following masterbatch applications:

- Colour
- Black
- White
- Additives

polyethylene

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### Availability

NOVAPOL GF-0218-F 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

NOVAPOL GF-0218-F 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: NOVAPOL GF-0218-F 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 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 low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

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