

DOWLEX™ NG 5066G

Polyethylene Resin
The Dow Chemical Company

PROSPECTOR®

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Technical Data

Product Description

DOWLEX™ NG 5066G Polyethylene Resin is an ethylene octene-1 copolymer suitable for the production of blown film requiring good tear strength and outstanding toughness with good stiffness and temperature resistance. Typical application of use include lamination film.

Applications:

- High clarity tissue overwrap
- Produce bags
- Food packaging films
- Lamination film

Complies with:

- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)3.2a
- Canadian HPFB No Objection

Consult the regulations for complete details.

General

| | |
|---------------------------|--|
| Material Status | • Commercial: Active |
| Search for UL Yellow Card | • The Dow Chemical Company |
| Availability | • Europe |
| Additive | • Antiblock: No • Processing Aid: No • Slip: No |
| Agency Ratings | • EU No 10/2011 • FDA 21 CFR 177.1520(c) 3.2a • HPFB (Canada) No Objection |
| Forms | • Pellets |

| Physical | Nominal Value Unit | Test Method |
|---|-------------------------|-------------|
| Density / Specific Gravity | 0.934 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.7 g/10 min | ISO 1133 |

| Films | Nominal Value Unit | Test Method |
|--------------------------|--------------------|--------------|
| Film Thickness - Tested | 50 µm | |
| Tensile Modulus | | ISO 527-3 |
| 2% Secant, MD : 50 µm | 420 MPa | |
| 2% Secant, TD : 50 µm | 470 MPa | |
| Tensile Stress | | ISO 527-3 |
| MD : Yield, 50 µm | 14.0 MPa | |
| TD : Yield, 50 µm | 17.0 MPa | |
| MD : Break, 50 µm | 21.0 MPa | |
| TD : Break, 50 µm | 23.0 MPa | |
| Tensile Elongation | | ISO 527-3 |
| MD : Break, 50 µm | 590 % | |
| TD : Break, 50 µm | 620 % | |
| Dart Drop Impact (50 µm) | 110 g | ISO 7765-1/A |
| Elmendorf Tear Strength | | ASTM D1922 |
| MD : 50 µm | 130 g | |
| TD : 50 µm | 230 g | |

| Thermal | Nominal Value Unit | Test Method |
|-----------------------------|--------------------|-------------|
| Vicat Softening Temperature | 124 °C | ASTM D1525 |

| Extrusion | Nominal Value Unit |
|------------------|--------------------|
| Melt Temperature | 190 to 240 °C |



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Extrusion Notes

Fabrication Conditions:

- Die Gap 2.5 mm
- Melt Temperature: 190 to 240°C
- Blow-Up Ratio: 1.5 to 3:1
- Recommended Gauge Range: 10 to 150 µm

Notes

¹ Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

The Dow Chemical Company

Telephone: +1-800-258-2436 (Americas); 00800-3-694-6367 (Europe, Middle East, Africa, and India); +800-7776-7776 (Asia Pacific)

Web: <http://www.dow.com>

Distributor

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

