



DOWLEX™ NG 5085B

Polyethylene Resin

Overview

DOWLEX™ NG 5085B is a Linear Low Density Polyethylene, 1-Octene copolymer, produced in the SOLUTIONTM technology. This resin presents better processability than conventional linear low density polyethylenes, with outstanding gloss and clarity maintaining the excellent mechanical properties and sealability of DOWLEX resins.

Main Characteristics:

- Film for lamination
- Film for form, fill and seal
- Film of low thickness
- Film for coextrusion
- Film with high gloss and clarity

Complies with:

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

Consult the regulations for complete details.

Additive

- Antiblock: 2500 ppm
- Slip: 1000 ppm
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm³	0.918 g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Puncture Resistance (2.0 mil (50 µm))	116 ft-lb/in³	9.60 J/cm³	Dow Method
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (50 µm)	1180 psi	8.10 MPa	
TD : Yield, 2.0 mil (50 µm)	1490 psi	10.3 MPa	
MD : Break, 2.0 mil (50 µm)	3740 psi	25.8 MPa	
TD : Break, 2.0 mil (50 µm)	3550 psi	24.5 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (50 µm)	720 %	720 %	
TD : Break, 2.0 mil (50 µm)	730 %	730 %	
Dart Drop Impact (2.0 mil (50 µm))	470 g	470 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (50 µm)	1100 g	1100 g	
TD : 2.0 mil (50 µm)	1200 g	1200 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.97 mil (50.0 µm))	62	62	ASTM D2457
Haze (1.97 mil (50.0 µm))	11 %	11 %	ASTM D1003

Additional Information

Processing Conditions for Blown Film:

- Die gap: 1,8 mm
- Temperature: 180°C - 200°C - 210°C
- Output: 116 kg/h
- Screw Speed: 82 rpm
- Extrusion pressure: 298 bar

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

