

DOWLEX™ 2036P Polyethylene Resin

Overview

- Linear Low Density Polyethylene
- · Improved thermal stability for high stiffness film applications
- · Complies with
 - U.S. FDA 21 CFR 177.1520 (c) 3.2a
 - Europe EU-Directive 2002/72/EC
 - Japan Hygienic Olefin and Styrene Plastics Association
 - U.S. FDA-DMF
 - HPFB (Canada), No Objection
 - · Consult the regulations for complete details

Nominal Value (English)	Nominal Value (SI)	Test Method
0.935 g/cm ³	0.935 g/cm³	ASTM D792
2.5 g/10 min	2.5 g/10 min	ASTM D1238
Nominal Value (English)	Nominal Value (SI)	Test Method
1.00 mil	25.4 μm	
		Dow Method
125 ft·lb/in³	10.3 J/cm ³	
		ASTM D882
3910 ft·lb/in³	324 J/cm ³	
3720 ft·lb/in³	308 J/cm³	
		ASTM D882
2450 psi	16.9 MPa	
2550 psi	17.6 MPa	
8590 psi	59.2 MPa	
5790 psi	39.9 MPa	
		ASTM D882
620 %	620 %	
750 %	750 %	
57 g	57 g	ASTM D1709A
		ASTM D1922
83 g	83 g	
290 g	290 g	
Nominal Value (English)	Nominal Value (SI)	Test Method
246 °F	119 °C	ASTM D1525
257 °F	125 °C	Dow Method
Nominal Value (English)	Nominal Value (SI)	Test Method
90	90	ASTM D2457
2.6 %	2.6 %	ASTM D1003
Nominal Value (English)	Nominal Value (SI)	
525 °F	274 °C	
	0.935 g/cm³ 2.5 g/10 min Nominal Value (English) 1.00 mil 125 ft·lb/in³ 3910 ft·lb/in³ 3720 ft·lb/in³ 2450 psi 2550 psi 8590 psi 5790 psi 5790 psi 5790 psi 8590 psi 5790 psi 8590 psi 5790 psi 8590 psi 5790 psi 800 % 750 % 7	0.935 g/cm³ 0.935 g/cm³ 2.5 g/10 min 2.5 g/10 min Nominal Value (English) Nominal Value (SI) 1.00 mil 25.4 μm 125 ft·lb/in³ 10.3 J/cm³ 3910 ft·lb/in³ 324 J/cm³ 3910 ft·lb/in³ 308 J/cm³ 2450 psi 16.9 MPa 2550 psi 17.6 MPa 8590 psi 59.2 MPa 5790 psi 39.9 MPa 620 % 620 % 750 % 750 % 57 g 57 g 83 g 83 g 290 g 290 g Nominal Value (English) Nominal Value (SI) 246 °F 119 °C 257 °F 125 °C Nominal Value (English) Nominal Value (SI) 90 90 2.6 % 2.6 %

Extrusion Notes

Fabrication Conditions For Cast Film:

Monolayer cast film produced on 5 layer cast line:

- Screw Size: 2 in. (51 mm); 30:1 L/D
- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Size: 2 in. (51 mm); 30:1 L/D
- Die Gap: 25 mil (0.6 mm)
- Chill Roll Temperature: 70°F (21°C)
- Melt Temperature: 525°F (274°C)
- Line Speed: 600 fpm (183 m/min)

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Notes

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

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This document is intended for use within Asia Pacific

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