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DOWLEX[™] 2045.01 G Linear Low Density Polyethylene Resin

Overview

DOWLEX 2045.01G Polyethylene Resin is designed for the production of a wide variety of industrial and consumer films. Films made from this resin exhibit a combination of excellent toughness and tear resistance. The product also delivers very good processability on conventional LLDPE machinery. DOWLEX 2045.01G Polyethylene Resin contains slip and antiblock additives.

Applications:

- Thin gauge industrial & consumer films
- Heavy duty films

Complies with:

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

• Slip: 80	0 ppm • P		rocessing Aid: No	
Nominal Value	(English)	Nominal Value	(SI)	Test Method
0.922	g/cm³	0.922	g/cm³	ASTM D792
1.0	g/10 min	1.0	g/10 min	ASTM D1238
Nominal Value	(English)	Nominal Value	(SI)	Test Method
2.0	mil	51	μm	
μm)) 230	ft·lb/in ³	19.0	J/cm ³	Dow Method
				ASTM D882
4180	ft·lb/in³	346	J/cm ³	
4240	ft·lb/in³	351	J/cm ³	
				ASTM D882
28100	psi	194	MPa	
33800	psi	233	MPa	
				ASTM D882
1600	psi	11.0	MPa	
1740	psi	12.0	MPa	
7980	psi	55.0	MPa	
7250	psi	50.0	MPa	
				ASTM D882
830	%	830	%	
890	%	890	%	
290	g	290	g	ASTM D1709A
				ASTM D1922
900	g	900	g	
1200	g	1200	g	
Nominal Value	(English)	Nominal Value	(SI)	Test Method
226	°F	108	°C	ASTM D1525
252	°F	122	°C	DSC
Nominal Value	(English)	Nominal Value	(SI)	Test Method
54		54		ASTM D2457
13	%	13	%	ASTM D1003
BUR 2.5.				
Nominal Value	(English)	Nominal Value	(SI)	
374 to 464	°F	190 to 240	°C	
	0.922 1.0 Nominal Value 2.0 μm)) 230 4180 4240 28100 33800 28100 33800 1600 1740 7980 7250 830 830 830 890 290 900 1200 Nominal Value 226 252 Nominal Value 54 13 BUR 2.5.	4180 ft·lb/in³ 4240 ft·lb/in³ 28100 psi 33800 psi 1600 psi 1740 psi 7980 psi 7250 psi 830 % 830 % 830 % 900 g 900 g 1200 g Nominal Value (English) 226 °F 252 °F Nominal Value (English) 54 13	0.922 g/cm³ 0.922 1.0 g/10 min 1.0 Nominal Value (English) Nominal Value 2.0 mil 51 μm)) 230 ft·lb/in³ 19.0 4180 ft·lb/in³ 346 4240 ft·lb/in³ 351 28100 psi 194 33800 psi 233 1600 psi 11.0 1740 psi 12.0 7980 psi 55.0 7250 psi 55.0 7250 psi 55.0 900 g 900 900 g 900 1200 g 290 900 g 900 1200 g 1200 Nominal Value (English) Nominal Value 226 °F 108 225 °F 122 Nominal Value (English) Nominal Value	0.922 g/cm³ 0.922 g/cm³ 1.0 g/10 min 1.0 g/10 min 1.0 g/10 min Nominal Value (English) Nominal Value (SI) 2.0 mil 51 µm µm)) 230 ft-lb/in³ 19.0 J/cm³ 4180 ft-lb/in³ 346 J/cm³ 4180 ft-lb/in³ 346 J/cm³ 28100 psi 194 MPa 33800 psi 233 MPa 1600 psi 11.0 MPa 1740 psi 12.0 MPa 7980 psi 55.0 MPa 7250 psi 50.0 MPa 830 % 830 % 830 % 830 % 900 g 900 g 900 g 900 g 900 g 900 g 1200 g



Extrusion Notes

Fabrication Conditions For Tubular Film Extrusion:

- Die Gap: 1.6 to 2.5 mm
- Melt Temperature: 190 to 240°C
- Blow-Up Ratio Range: 1.50 to 3:1.
- Recommended Gauge Range: 10 to 150 μm

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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