Technical Information

DOWLEX™ 2700G
Linear Low Density Polyethylene Resin

Overview

DOWLEX™ 2700G Linear Low density Polyethylene Resin is a special blown film resin designed for the production of high quality pre-oriented films for industrial and consumer packaging applications.

Main Characteristics:

- Allows high output rates
- Excellent pre-orientation capabilities
- Provide good toughness properties

Complies with:

- U.S. FDA FCN 741
- Europe Commission Regulation (EU) No 10/2011

Consult the regulation for complete details.

Additive

- Antiblock: No
- Slip: No
- 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)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Films	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Film Thickness - Tested	0.67	mil	17	µm	
Film Puncture Energy (0.67 mil (17 µm))	16.8	in·lb	1.90	J	Dow Method
Film Puncture Force (0.67 mil (17 µm))	7.19	lbf	32.0	N	Dow Method
Tensile Strength					ASTM D882
MD : Break, 0.67 mil (17 µm)	3480	psi	24.0	MPa	
TD : Break, 0.67 mil (17 µm)	3340	psi	23.0	MPa	
Tensile Elongation					ASTM D882
MD : Break, 0.67 mil (17 µm)	350	%	350	%	
TD : Break, 0.67 mil (17 µm)	570	%	570	%	
Dart Drop Impact (0.67 mil (17 µm))	190	g	190	g	ASTM D1709A
Elmendorf Tear Strength					ASTM D1922
MD : 0.67 mil (17 µm)	120	g	120	g	
TD : 0.67 mil (17 µm)	480	g	480	g	

Extrusion	Nominal Value	(English)	Nominal Value	(SI)
Melt Temperature	374 to 464	°F	190 to 240	°C

Extrusion Notes

Fabrication Conditions For Blown Film:

- BUR range: 1.5-3 : 1
- Melt Temperature: 190-240°C
- Recommended thickness: 10 to 100 mic

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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