Technical Information

DOWLEX™ NG 2038B
Polyethylene Resin

Additive
- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.935	g/cm³	0.935	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	1.5	mil	38	µm	
Film Puncture Resistance (1.5 mil (38 µm))	97.0	ft·lb/in³	8.03	J/cm³	Dow Method
Secant Modulus					ASTM D882
2% Secant, MD : 1.5 mil (38 µm)	53600	psi	370	MPa	
2% Secant, TD : 1.5 mil (38 µm)	61600	psi	425	MPa	
Tensile Strength					ASTM D882
MD : Yield, 1.5 mil (38 µm)	2460	psi	17.0	MPa	
TD : Yield, 1.5 mil (38 µm)	2750	psi	19.0	MPa	
MD : Break, 1.5 mil (38 µm)	6660	psi	45.9	MPa	
TD : Break, 1.5 mil (38 µm)	5940	psi	41.0	MPa	
Tensile Elongation					ASTM D882
MD : Break, 1.5 mil (38 µm)	900	%	900	%	
TD : Break, 1.5 mil (38 µm)	1100	%	1100	%	
Dart Drop Impact (1.5 mil (38 µm))	180	g	180	g	ASTM D1709A
Elmendorf Tear Strength					ASTM D1922
MD : 1.5 mil (38 µm)	80	g	80	g	
TD : 1.5 mil (38 µm)	840	g	840	g	
Optical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Gloss (45°, 1.48 mil (37.5 µm))	60		60		ASTM D2457
Haze (1.48 mil (37.5 µm))	12	%	12	%	ASTM D1003

Extrusion	Nominal Value	(English)	Nominal Value	(SI)
Melt Temperature	451	°F	233	°C

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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