



DOWLEX™ 2636G Polyethylene Resin

Overview

DOWLEX™ 2636G Polyethylene Resin is a cast film extrusion grade suitable for high stiffness film applications.
Linear low density Polyethylene/Hexene copolymer.
Improved thermal stability for high stiffness film applications.

Complies with:

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

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.933 g/cm ³	0.933 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	2.5 g/10 min	2.5 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	40 µm	
Film Puncture Force	8.09 lbf	36.0 N	Dow Method
Tensile Strength			ASTM D882
MD : Break	5950 psi	41.0 MPa	
TD : Break	5370 psi	37.0 MPa	
Tensile Elongation			ASTM D882
MD : Break	600 %	600 %	
TD : Break	840 %	840 %	
Dart Drop Impact	65 g	65 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	98 g	98 g	
TD	430 g	430 g	
Tensile Energy			ASTM D882
MD	4.1 ft·lb	5.6 J	
TD	5.5 ft·lb	7.5 J	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°)	90	90	ASTM D2457
Haze	3.60 %	3.60 %	ASTM D1003

Extrusion Notes

Fabrication Conditions For Cast Film:

- Monolayer cast film produced on 5 layer (A/B/B/B/A) cast line.
- Screw Size A: 51mm; 30:1 L/D
- Screw Size B: 63.5mm; 30:1 L/D
- Die Gap: 0.6 mm
- Chill Roll Temperature: 21°C
- Melt Temperature: 274°C
- Line Speed: 106m/min
- Output: 150Kg/hr

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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