



DOWLEX™ 2064G

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

DOWLEX™ 2064G Polyethylene Resin is cast extrusion linear low density polyethylene resin grade suitable for artificial turf yarns including slit tapes and monofilaments.

Main Characteristics:

- Linear Low Density Polyethylene
- Improved thermal stability for artificial turf yarns, high stiffness monofilament and tape.

Complies with:

- U.S. FDA 21 CFR 177.1520(c) 3.2a.

Consult the regulations for complete details.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antiblock: No • Processing Aid: No • Slip: No
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.937		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Puncture Resistance	125	ft-lb/in ³	Internal Method
Film Toughness - MD	3910	ft-lb/in ³	ASTM D882
Film Toughness - TD	3720	ft-lb/in ³	ASTM D882
Tensile Strength - MD (Yield)	2450	psi	ASTM D882
Tensile Strength - TD (Yield)	2550	psi	ASTM D882
Tensile Strength - MD (Break)	8590	psi	ASTM D882
Tensile Strength - TD (Break)	5790	psi	ASTM D882
Tensile Elongation - MD (Break)	620	%	ASTM D882
Tensile Elongation - TD (Break)	750	%	ASTM D882
Dart Drop Impact	57	g	ASTM D1709A
Elmendorf Tear Strength - MD ²	83	g	ASTM D1922
Elmendorf Tear Strength - TD ²	290	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	246	°F	ASTM D1525
Melting Temperature (DSC)	257	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	90		ASTM D2457
Haze	2.60	%	ASTM D1003

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Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	525	°F

Extrusion Notes

Fabrication Conditions For Cast Film:

- EGAN/Davis-Standard 5 layer cast line
- Melt Temperature: 525°F (274°C)
- Chill Roll (primary/secondary) Temperature: 70°F (21°C)
- Line Speed: 600 fpm (183m/min)
- Die Width: 24in. (520mm)
- Die Gap: 25mil (0.6mm)

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method B