



DOWLEX™ 2064G

Linear Low Density Polyethylene Resin

Overview 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.

Additive • Antiblock: No • Slip: No • Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm ³	0.935 g/cm ³	ASTM D792
Base Density ¹	0.935 g/cm ³	0.935 g/cm ³	Dow Method
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 Puncture Resistance	125 ft·lb/in ³	10.3 J/cm ³	Dow Method
Film Toughness			ASTM D882
MD	3910 ft·lb/in ³	324 J/cm ³	
TD	3720 ft·lb/in ³	308 J/cm ³	
Tensile Strength			ASTM D882
MD : Yield	2450 psi	16.9 MPa	
TD : Yield	2550 psi	17.6 MPa	
MD : Break	8590 psi	59.2 MPa	
TD : Break	5790 psi	39.9 MPa	
Tensile Elongation			ASTM D882
MD : Break	620 %	620 %	
TD : Break	750 %	750 %	
Dart Drop Impact	57 g	57 g	ASTM D1709A
Elmendorf Tear Strength ²			ASTM D1922
MD	83 g	83 g	
TD	290 g	290 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	246 °F	119 °C	ASTM D1525
Melting Temperature (DSC)	257 °F	125 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°)	90	90	ASTM D2457
Haze	2.60 %	2.60 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	525 °F	274 °C	

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

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

² Method B

