DOWLEX™ 2064G

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 2064G Polyethyelene 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 CRF 177.1520(c) 3.2a.
Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.935	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Puncture Resistance	10.3	J/cm³	Internal method
Film strength			ASTM D882
MD	324	J/cm³	ASTM D882
TD	308	J/cm³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	16.9	MPa	ASTM D882
TD: Yield	17.6	MPa	ASTM D882
MD: Fracture	59.2	MPa	ASTM D882
TD: Fracture	39.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	620	%	ASTM D882
TD: Fracture	750	%	ASTM D882
Dart Drop Impact	57	g	ASTM D1709A
Elmendorf Tear Strength [1]			ASTM D1922
MD	83	g	ASTM D1922
TD	290	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	119	°C	ASTM D1525
Melting Temperature (DSC)	125	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°)	90		ASTM D2457
Haze	2.6	%	ASTM D1003

Extrusion	Nominal Value	Unit
Melt Temperature	274	°C

Extrusion instructions
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)

NOTE	
1.	Method B

Recommended distributors for this material

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