

DOWLEX™ 2027G

The Dow Chemical Company - Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

- Linear Medium Density Polyethylene
- For high speed, thin gauge applications
- · Improved stiffness
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
- Complies with Canadian HPFB No Objection (With Limitations)
- Consult the regulations for complete details.

General				
Material Status	Commercial: Active			
Availability	Asia Pacific	Latin America	North America	
Additive	Antiblock: No	 Processing Aid: No 	Slip: No	
Agency Ratings	 FDA 21 CFR 177.1520(c) 3.2a HPFB (Canada) No Objection ¹ 			
Forms	 Pellets 			
Processing Method	Cast Film			

ASTM & ISO Properties ²				
Nominal Value	Unit	Test Method		
0.943		ASTM D792		
4.0	g/10 min	ASTM D1238		
Nominal Value	Unit	Test Method		
1	mil			
1370	ft·lb/in³	ASTM D882		
1500	ft·lb/in³	ASTM D882		
2350	psi	ASTM D882		
1560	psi	ASTM D882		
5660	psi	ASTM D882		
4060	psi	ASTM D882		
580	%	ASTM D882		
740	%	ASTM D882		
43	g	ASTM D1709A		
34	g	ASTM D1922		
210	g	ASTM D1922		
Nominal Value	Unit	Test Method		
253	°F	ASTM D1525		
261	°F	Internal Method		
Nominal Value	Unit	Test Method		
86		ASTM D2457		
4.10	%	ASTM D1003		
	Nominal Value 0.943 4.0 Nominal Value 1 1370 1500 2350 1560 4060 580 740 43 34 210 Nominal Value 253 261 Nominal Value	Nominal Value Unit		

Processing Information			
Extrusion	Nominal Value Unit		
Melt Temperature	529 °F		



DOWLEX™ 2027G

The Dow Chemical Company - Polyethylene Resin

Extrusion Notes

Fabrication Conditions For Cast Film:

Screw Size: 3.5 in. (89 mm); 32:1 L/D
Melt Temperature: 529°F (276°C)
Screw Size: 2.5 in. (63.5 mm); 24:1 L/D

Melt Temperature: 515°F (268°C)
Chill Roll Temperature: 70°F (21°C)
Line Speed: 500 fpm (152 m/min)

Notes

¹ With limitations



² Typical properties: these are not to be construed as specifications.