

# DOW™ LDPE 4016

# The Dow Chemical Company - Low Density Polyethylene Resin

Tuesday, November 5, 2019

## **General Information**

### **Product Description**

- · A high melt index resin for high speed thin coating applications
- Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1.
- · Complies with Canadian HPFB No Objection (With Limitations)
- · Consult the regulations for complete details.

Polyethylene 4016 can be used for a variety of applications such as condiment packaging, dry foods packaging, snack foods packaging, moist foods packaging, sugar pouches, lidding stock and medical packaging.

General	
Material Status	Commercial: Active
Availability	North America
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1     HPFB (Canada) No Objection
Forms	• Pellets
Processing Method	Extrusion Coating

ASTM & ISO Properties 1				
Physical	Nominal Value Unit	Test Method		
Density / Specific Gravity	0.920	ASTM D792		
Melt Mass-Flow Rate (190°C/2.16 kg)	16 g/10 min	ASTM D1238		

extrusion	Processing Information  Nominal Value	Unit	Test Method
Melt Temperature	600 to 620	°F	
Maximum Line Speed	> 25.0	ft/sec	Internal Method
Minimum Coating Thickness	0.30	mil	Internal Method
Minimum Coating Weight	4.0	lb/ream	Internal Method
Neck-in (610°F, 1.0 mil)	2.4	in	Internal Method

Fabrication Conditions For Extrusion Coating Film:

Screw Size: 3.5 in. (89 mm); 30:1 L/D

Screw Type: Single Flight with Maddock Mixer

• Die Gap: 20 mil (0.508 mm)

• Melt Temperature: 625°F (329°C)

• Output: 250 lb/hr

· Screw Speed: 90 rpm

• Guage 1.0 mil (25µm)

## **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

