

# DOWLEX™ 2645G

## The Dow Chemical Company - Polyethylene Resin

Tuesday, November 5, 2019

### **General Information**

### **Product Description**

DOWLEX<sup>TM</sup> Polyethylene Resin is designed for the production of a wide variety of film applications. Films made from this resin exhibit a combination of good toughness and tear resistance.

#### Complies with:

- U.S. FDA FCN 741
- HPFB (Canada), No Objection
- EU, No 10/2011

Consult the regulations for complete details.

General					
Material Status	Commercial: Active	Commercial: Active			
Availability	Asia Pacific	• Europe	North America		
Additive	Antiblock: No	Processing Aid: No	Slip: No		
Agency Ratings	• EU No 10/2011	• FDA FCN 741	<ul> <li>HPFB (Canada) No Objection</li> </ul>		
Forms	• Pellets				
Processing Method	Blown Film				

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.921		ASTM D792	
Melt Mass-Flow Rate (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238	
Films	Nominal Value	Unit	Test Method	
Film Thickness - Tested	2	mil		
Film Puncture Resistance (2.0 mil)	201	ft·lb/in³	Internal Method	
Secant Modulus - 2% Secant, MD (2.0 mil)	24400	psi	ASTM D882	
Secant Modulus - 2% Secant, TD (2.0 mil)	34500	psi	ASTM D882	
Tensile Strength - MD (Yield, 2.0 mil)	2060	psi	ASTM D882	
Tensile Strength - TD (Yield, 2.0 mil)	2120	psi	ASTM D882	
Tensile Strength - MD (Break, 2.0 mil)	7080	psi	ASTM D882	
Tensile Strength - TD (Break, 2.0 mil)	5680	psi	ASTM D882	
Tensile Elongation - MD (Break, 2.0 mil)	620	%	ASTM D882	
Tensile Elongation - TD (Break, 2.0 mil)	740	%	ASTM D882	
Dart Drop Impact (2.0 mil)	300	g	ASTM D1709A	
Elmendorf Tear Strength - MD (2.0 mil)	720	g	ASTM D1922	
Elmendorf Tear Strength - TD (2.0 mil)	1000	g	ASTM D1922	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	225	°F	ASTM D1525	
Melting Temperature (DSC)	248	°F	Internal Method	
Optical	Nominal Value	Unit	Test Method	
Gloss (45°, 2.00 mil)	63		ASTM D2457	
Haze (2.00 mil)	12.0	%	ASTM D1003	

our control, and we cannot and will not take responsibility for the information or content.



## DOWLEX™ 2645G

### The Dow Chemical Company - Polyethylene Resin

### **Processing Information**

#### **Extrusion Notes**

Fabrication Conditions For Blown Film:

• Screw Size: 2.5 in. (63.5 mm) 30:1L/D

· Screw Type: DSBII

• Die Gap: 70 mil (1.8 mm)

• Output: 10 lb/hr/in. of die circumference

Die Diameter: 6 in.Blow-Up Ratio: 2.5 : 1

#### **Notes**

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

