

# AGILITY™ 6047

Polyethylene Resin  
The Dow Chemical Company

Message:

AGILITY 6047 is a Linear Medium Density Polyethylene, 1-Octene Copolymer from Dow. This resin offers good mechanical properties and toughness, with the required features for the production of diapers and products for feminine hygiene. This product is easy to process and has good web stability at high speed machines.

Main Characteristics:

Film for products for adult incontinence

Film for diapers

Film for products for feminine hygiene

Easy to process and good web stability at high speed machines

Complies with Regulation U.S. FDA 21 CFR 177.1520 (c) 3.2a

Complies with Europe Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Puncture Resistance (20 µm)	0.485	J/cm <sup>3</sup>	Internal method
secant modulus			ASTM D882
TD : 20 µm	512	MPa	ASTM D882
1% secant, TD: 20 µm	428	MPa	ASTM D882
2% secant, TD: 20 µm	327	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	15.1	MPa	ASTM D882
TD: Yield, 20 µm	15.1	MPa	ASTM D882
MD: Break, 20 µm	12.0	MPa	ASTM D882
TD: Break, 20 µm	10.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 20 µm	9.7	%	ASTM D882
TD: Yield, 20 µm	6.3	%	ASTM D882
MD: Break, 20 µm	260	%	ASTM D882
TD: Break, 20 µm	85	%	ASTM D882
Dart Drop Impact (20 µm)	52	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922

MD : 20 µm	43	g	ASTM D1922
TD : 20 µm	84	g	ASTM D1922
Extrusion	Nominal Value	Unit	
Melt Temperature	235	°C	
Extrusion instructions			

Recommended Processing Conditions for extrusion Cast for 20 um film:

Die gap: 0,3 mm

Line Speed: 19,7 m/min

Melt Pressure: 81 bar

Melt Temperature: 235°C

Output: 7 kg/h

Speed: 75 rpm

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#### Recommended distributors for this material

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