

AMPLIFY™ TY 1451B

Functional Polymer
The Dow Chemical Company

Message:

AMPLIFY™ TY 1451B Functional Polymer is a maleic anhydride grafted (MAH) polymer. In tie layers for flexible packaging, AMPLIFY™ TY 1451B Functional Polymer promotes adhesion of Polyethylene to barrier polymers, such as polyamide and ethylene vinyl alcohol (EVOH), and to ionomers and other polar substrates.

Main Characteristics:

- Excellent adhesion to polyamide and EVOH, ionomers and polyethylene
- Excellent physical properties
- Wide range of process and service temperature
- For blown and cast film, thermoforming applications

Complies with:

- 21 CFR 175.105(c)(5)

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 175.105(c) (5)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.906	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
MAH Graft Level ¹	Low		Internal method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.0	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	Internal method
NOTE			
1.	Low: 0.5 wt%		

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