



AMPLIFY™ TY 1151B

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

AMPLIFY™ TY 1151B Functional Polymer is a maleic anhydride grafted (MAH) polymer intended for use in blends. In tie layers for flexible packaging, AMPLIFY™ TY 1151B Functional Polymer promotes adhesion of polyethylene to barrier polymers such as polyamide (nylon) and ethylene vinyl alcohol (EVOH) and other polar substrates.

Typical blending levels in polyethylene let-down resin are 30-40% for adhesion to EVOH and 15-25% for adhesion to nylon.

Main Characteristics:

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

Complies with:

- U.S. FDA 21 CFR 175.105(c)(5)

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• FDA 21 CFR 175.105(c)		
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.915	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
MAH Graft Level ²	Medium		Internal Method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	207	°F	ASTM D1525
Melting Temperature (DSC)	255	°F	Internal Method

Notes

¹ Typical properties: these are not to be construed as specifications.

² Low: <0.25 wt%, Medium 0.25-0.5, High >0.5 wt%