



AMPLIFY™ TY 3351

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

AMPLIFY™ TY 3351 Functional Polymer is a maleic anhydride grafted (MAH) polymer. In tie layers for flexible packaging, AMPLIFY TY 3351 Functional Polymer promotes adhesion of Polyethylene to polystyrene (HIPS) and barrier polymers such as polyamide and ethylene vinyl alcohol (EVOH) and other polar substrates.

Main Characteristics:

- Excellent adhesion to polyamide and EVOH
- For blown and cast film and sheet

Complies with:

- U.S. FDA 21CFR175.105

Consult the regulations for complete details.

General

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
MAH Graft Level ²	Low		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	1740	psi	ASTM D638
Tensile Strength (Break)	1370	psi	ASTM D638
Tensile Elongation (Break)	480	%	ASTM D638
Flexural Modulus - 2% Secant	40000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	192	°F	ASTM D1525
Melting Temperature (DSC)	259	°F	ASTM D4591

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%