

# AMPLIFY™ TY 3351

Functional Polymer  
The Dow Chemical Company

Message:

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 Information			
Agency Ratings	FDA 21 CFR 175.105		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
MAH Graft Level <sup>1</sup>	Low		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	12.0	MPa	
Break	9.42	MPa	
Tensile Elongation (Break)	480	%	ASTM D638
Flexural Modulus - 2% Secant	276	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ASTM D1525
Melting Temperature (DSC)	126	°C	ASTM D4591
NOTE			

1. Low: 0.5 wt%

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