



AMPLIFY™ TY 3351 Functional Polymer

Overview

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.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.940 g/cm ³	0.940 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
MAH Graft Level	Low	Low	Dow Method ¹
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	1740 psi	12.0 MPa	
Break	1370 psi	9.42 MPa	
Tensile Elongation (Break)	480 %	480 %	ASTM D638
Flexural Modulus - 2% Secant	40000 psi	276 MPa	ASTM D790
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	192 °F	89.0 °C	ASTM D1525
Melting Temperature (DSC)	259 °F	126 °C	ASTM D4591

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Low: <0.25 wt%, Medium 0.25-0.5, High >0.5 wt%

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