



AMPLIFY™ TY 3351B

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

TY 3351B is a member of the AMPLIFY™ Functional polymer portfolio. These polymers are maleic anhydride grafted (MAH) polyolefins which are designed for the tie layer and polymer modifier market segments. TY 3351B is a grafted polymer composite that is intended to be used in multi-layer barrier structures where adhesion is needed between a range of polymers such as polyolefins, polystyrene, EVOH or polyamide (PA). Due to the excellent processing characteristics of this grade, excellent adhesion may be achieved in using conventional multi-layer extrusion equipment.

Main Characteristics:

- Versatile utility grade
- Strong adhesion to many polar substrates - PA, EVOH, PET
- Strong adhesion to many non-polar substrates - PE, PP, PS
- Wide range of process and service temperatures
- Low gels to ensure minimal defects

Complies with:

- US FDA 21 CFR 175.105

Consult the regulations for further 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		
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)	3.0	g/10 min	ASTM D1238
MAH Graft Level ²	Medium		Internal Method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	194	°F	ASTM D1525
Melting Temperature	259	°F	DSC
Optical	Nominal Value	Unit	Test Method
Yellowness Index ³	< 10	YI	ASTM D2457

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	260 to 450	°F

Extrusion Notes

Fabrication Conditions for Multi-layer film applications are not defined at this time.

Notes

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

² Maleic Anhydride level is defined as Low: <0.25 wt%, Medium 0.25-0.5 wt%, High >0.5 wt% MAH

³ pellets