



AMPLIFY™ TY 1355

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

AMPLIFY™ TY 1355 Functional Polymer is a maleic anhydride (MAH) grafted LDPE polymer. AMPLIFY TY 1355 Functional Polymer promotes adhesion of Polyethylene to barrier polymers such as polyamide, EVOH and other polar substrates.

Main Characteristics:

- Excellent adhesion to polyamide and EVOH
- High melt strength Fully formulated (does not have to be diluted with other polymers) for Extrusion Coating and Extrusion Lamination applications

Complies with:

- US FDA 21 CFR 175.105 (c)(5)

Consult the regulations for complete details.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antiblock: No • Processing Aid: No • Slip: No
Agency Ratings	• FDA 21 CFR 175.105(c) (5)
Forms	• Pellets

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ISO 1133
MAH Graft Level ²	Low		Internal Method
Melt Flow Ratio - I10/I2	10.0		ASTM D1238
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	199	°F	ASTM D1525
Melting Temperature (DSC)	258	°F	Internal Method
Peak Crystallization Temperature (DSC)	232	°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%