

AMPLIFY™ TY 1060H

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

AMPLIFY[™] 1060H Functional Polymer is a maleic anhydride grafted (MAH) polymer concentrate designed as a blend component for unmodified polyethylene and polypropylene. In tie layers for flexible packaging, AMPLIFY TY 1060H promotes adhesion of polyethylene and polypropylene to barrier polymers such as polyamide and ethylene vinyl alcohol (EVOH). The functionality of this polymer also promotes adhesion between metal, polyolefins, cellulose, polyester, polycarbonate, glass, and foil.

For linear low density polyethylene film structures: Typical blend addition level is 20-25% for EVOH and 10-25% for polyamide. For polypropylene film structures: Optimal adhesion performance is obtained when using a polypropylene dilution resin with an MFR of less than 3.0 (230 °C/2.16 kg). Typical blend addition level is 20-25% for EVOH and 10-25% for polyamide.

Main Characteristics:

- · Adhesive concentrate for use in blown, cast, and coating applications
- · Tie layer for food packaging and pipe coating
- · Adhesive layer in multi-layer flexible film applications
- · Polymer compatibilizer
- · Low gels

Complies with:

- U.S. FDA 21 CFR 175.105
- EU, No 10/2011

Consult the regulations for complete details.

General				
Material Status	Commercial: Active			
Availability	North America			
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 175.105		
Forms	Pellets			

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	0.870	g/cm³	ASTM D792		
Melt Mass-Flow Rate (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238		
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133		
MAH Graft Level ²	High		Internal Method		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shore A	77				
Shore D	21				
Shore Hardness			ISO 868		
Shore A	77				
Shore D	21				
Thermal	Nominal Value	Unit	Test Method		
Vicat Softening Temperature	104	°F	ASTM D1525		
Vicat Softening Temperature	104	°F	ISO 306		
Melting Temperature (DSC)	145	°F	Internal Method		



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Additional Information

Molded in accordance with ASTM D4976.

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%, Very High >1.0 wt%.

