

# AMPLIFY™ TY 1060H

Functional Polymer  
The Dow Chemical Company

## Message:

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 Information			
Agency Ratings	FDA 21 CFR 175.105		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.870	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238, ISO 1133
MAH Graft Level <sup>1</sup>	High		Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	77		ASTM D2240, ISO 868
Shaw D	21		ASTM D2240, ISO 868
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	40.0	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	62.8	°C	Internal method
Additional Information			
Molded in accordance with ASTM D4976.			
NOTE			
1. Low: 0.5 wt%, Very High > 1.0 wt%.			

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