

# AMPLIFY™ GR 216

Functional Polymer

The Dow Chemical Company

## Message:

AMPLIFY™ GR 216 Functional Polymer is a maleic anhydride grafted (MAH) polymer. The base polymer is a polyolefin elastomer with high flexibility and elasticity.

Main Characteristics:

- High elasticity with good elastic recovery
- Excellent impact strength in blends with polyamide and other engineering resins
- Maleic anhydride grafted elastomer
- Polymer compatibilizer
- Impact Modification
- Adhesion promoter

Promotes adhesion between metal , polyolefins, cellulose, polyester, polycarbonate, glass and foil.

-Useful to improve impact resistance of polyamides and other engineering resins.

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	0.875	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	8.96	MPa	ASTM D638, ISO 527-2/51
Tensile Elongation (Break)	1000	%	ASTM D638, ISO 527-2/51
Flexural Modulus - 2% Secant	13.8	MPa	ASTM D790A, ISO 178
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-53.9	°C	Internal method
Vicat Softening Temperature	40.0	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	62.8	°C	Internal method
Additional Information			
根据 ASTM D4976 进行模塑.			
NOTE			

1.

Low: 0.5 wt%.

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