



AMPLIFY™ GR 216

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

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

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 175.105	
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.875	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ISO 1133
MAH Graft Level ²	High		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1300	psi	ASTM D638
Tensile Stress (Break)	1300	psi	ISO 527-2/51
Tensile Elongation (Break)	1000	%	ASTM D638
Tensile Strain (Break)	1000	%	ISO 527-2/51
Flexural Modulus - 2% Secant	2000	psi	ASTM D790A
Flexural Modulus - 2% Secant	2000	psi	ISO 178
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	77		
Shore D	21		

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Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	77		
Shore D	21		
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-65.0	°F	Internal Method
Vicat Softening Temperature	104	°F	ASTM D1525
Vicat Softening Temperature	104	°F	ISO 306
Melting Temperature (DSC)	145	°F	Internal Method

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 wt %, High >0.5 wt %.