



AMPLIFY™ GR 216 Functional Polymer

Overview 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

Complies with:

- U.S. FDA 21 CFR 175.105
- EU, 2002/72/EC
- Consult the regulations for complete details.

Applications:

- Impact Modification
- Adhesion promoter

Outstanding Properties:

- Promotes adhesion between metal, polyolefins, cellulose, polyester, polycarbonate, glass and foil.
- Useful to improve impact resistance of polyamides and other engineering resins.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.875 g/cm ³	0.875 g/cm ³	ASTM D792 ISO 1183
Melt Index (190°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238 ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	1300 psi	8.96 MPa	ISO 527-2/51 ASTM D638 ¹
Tensile Elongation (Break)	1000 %	1000 %	ISO 527-2/51 ASTM D638 ¹
Flexural Modulus - 2% Secant	2000 psi	13.8 MPa	ASTM D790A ISO 178
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240 ISO 868
Shore A	77	77	
Shore D	21	21	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature (DSC)	-65.0 °F	-53.9 °C	Dow Method
Vicat Softening Temperature	104 °F	40.0 °C	ASTM D1525 ISO 306
Melting Temperature (DSC)	145 °F	62.8 °C	Dow Method
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
MAH Graft Level			Dow Method
As measured at the time of production.	High (0.5-1.0 wt%)	High (0.5-1.0 wt%)	
Molded in accordance with ASTM D4976.			

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 2.0 in/min (51 mm/min)

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