



AMPLIFY™ GR 208

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

AMPLIFY™ GR 208 Functional Polymer is a maleic anhydride grafted (MAH) polymer. The base polymer is an ethylene-butene copolymer exhibiting high flexibility and elasticity. This product is useful to improve impact resistance for polyamide or other engineering resins.

Main Characteristics:

- High elasticity with good elastic recovery
- Excellent impact strength in blends with polyamide and other engineering resins
- Maleic anhydride modified VLDPE

Complies with:

- U.S. FDA 21 CFR 175.105

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• FDA 21 CFR 175.105		
Forms	• Pellets		
Processing Method	• Coating		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	3.3	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.3	g/10 min	ISO 1133
MAH Graft Level ²	Medium		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1600	psi	ASTM D638
Tensile Stress (Break)	1600	psi	ISO 527-2/51
Tensile Elongation (Break)	900	%	ASTM D638
Tensile Strain (Break)	900	%	ISO 527-2/51
Flexural Modulus - 2% Secant	13000	psi	ASTM D790A
Flexural Modulus - 2% Secant	13000	psi	ISO 178
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	96		
Shore D	36		
Shore Hardness			ISO 868
Shore A	96		
Shore D	36		
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-53.0	°F	Internal Method
Vicat Softening Temperature	153	°F	ASTM D1525
Vicat Softening Temperature	153	°F	ISO 306

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Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	243	°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, High >0.5 wt%, Very High >1.0 wt%.