

AMPLIFY™ GR 209

Functional Polymer
The Dow Chemical Company

Message:

AMPLIFY™ GR 209 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 Information			
Agency Ratings	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Coating		
Physical	Nominal Value	Unit	Test Method
Density	0.898	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238, ISO 1133
MAH Graft Level ¹	High		Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	96		ASTM D2240, ISO 868
Shaw D	35		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	8.30	MPa	ASTM D638, ISO 527-2/51
Tensile Elongation (Break)	730	%	ASTM D638, ISO 527-2/51
Flexural Modulus - 2% Secant	90.0	MPa	ASTM D790A, ISO 178
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-48.9	°C	Internal method
Vicat Softening Temperature	66.0	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	115	°C	Internal method
Additional Information			
根据 ASTM D4976 进行模塑.			
NOTE			
1.	Low: 0.5 wt%.		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

