

AMPLIFY™ GR 204

Functional Polymer
The Dow Chemical Company

Message:

AMPLIFY™ GR 204 Functional Polymer is a maleic anhydride grafted (MAH) polymer concentrate designed as a blend component for unmodified polyethylene. AMPLIFY GR 204 Functional Polymer promotes adhesion of polyethylene to polyamide and ethylene vinyl alcohol (EVOH). The functionality of this polymer also promotes adhesion between metal, polyolefins, cellulose, polyester, polycarbonate, glass, and foil.

Main Characteristics:
Maleic anhydride modified HDPE
Adhesive concentrate for use in blown or cast film and coating applications
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	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238, ISO 1133
MAH Graft Level ¹	Very high		Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	97		ASTM D2240, ISO 868
Shaw D	64		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture ²	16.0	MPa	ASTM D638
Fracture	16.0	MPa	ISO 527-2/51
Tensile Elongation			
Fracture ³	100	%	ASTM D638
Fracture	100	%	ISO 527-2/51
Flexural Modulus - 2% Secant	786	MPa	ASTM D790A, ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	127	°C	Internal method
Additional Information			
根据 ASTM D4976 进行模塑.			
NOTE			
1.	Low: 0.5 wt%, very high> 1.0 wt%		
2.	51 mm/min		

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