

AMPLIFY™ GR 205

Functional Polymer
The Dow Chemical Company

Message:

AMPLIFY™ GR 205 Functional Polymer is a maleic anhydride grafted (MAH) polymer. The base polymer is a high density polyethylene.

Main Characteristics:

Maleic anhydride grafted HDPE

Polymer compatibilizer

Adhesion promoter

Promotes adhesion between metal , polyolefins, cellulose, polyester, polycarbonate, glass and foil.

Complies with:

U.S. FDA 21 CFR 177.1520(c)6

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 6		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
	cast film		
	Coating		
Physical	Nominal Value	Unit	Test Method
Density	0.960	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	Very high		Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	98		ASTM D2240, ISO 868
Shaw D	67		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture ²	15.9	MPa	ASTM D638
Fracture	15.9	MPa	ISO 527-2/51
Tensile Elongation			
Fracture ³	300	%	ASTM D638
Fracture	300	%	ISO 527-2/51
Flexural Modulus - 2% Secant	924	MPa	ASTM D790A, ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	129	°C	ASTM D1525, ISO 306

Melting Temperature (DSC)	130	°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		
3.	51 mm/min		

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