



AMPLIFY™ GR 205

The Dow Chemical Company - Functional Polymer

Sunday, November 3, 2019

General Information

Product Description

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

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1520(c) 6	
Forms	• Pellets		
Processing Method	• Blown Film	• Cast Film	• Coating

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
MAH Graft Level ²	Very High		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Break)	2300	psi	ASTM D638
Tensile Stress (Break)	2300	psi	ISO 527-2/51
Tensile Elongation ³ (Break)	300	%	ASTM D638
Tensile Strain (Break)	300	%	ISO 527-2/51
Flexural Modulus - 2% Secant	134000	psi	ASTM D790A
Flexural Modulus - 2% Secant	134000	psi	ISO 178
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	98		
Shore D	67		
Shore Hardness			ISO 868
Shore A	98		
Shore D	67		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	264	°F	ASTM D1525

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	264	°F	ISO 306
Melting Temperature (DSC)	266	°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 wt %, High >0.5 wt %, Very High >1.0 wt%

³ 2.0 in/min