

AMPLIFY[™] GR 213 Functional Polymer

Overview

Amplify* GR 213 Functional Polymer is a maleic anhydride grafted (MAH) polymer. In tie layers for flexible packaging, Amplify* GR 213 Functional Polymer promotes adhesion of Polyethylene to barrier polymers such as polyamide and ethylene vinyl alcohol (EVOH) and other polar substrates.

Main Characteristics:

- · Excellent adhesion to polyamide and EVOH
- · Excellent physical properties
- Wide range of process and service temperature.
- · Complies with
 - US FDA 21 CFR 175.105
 - EU-Directive 2002/72/EC
 - · Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method	
Density	0.922 g/cm ³	0.922 g/cm ³	ASTM D792	
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method	
Tensile Strength			ASTM D638	
Yield	1600 psi	11.0 MPa		
Break	4010 psi	27.7 MPa		
Tensile Elongation (Break)	1700 %	1700 %	ASTM D638	
Flexural Modulus - 2% Secant	49000 psi	338 MPa	ASTM D790	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method	
Vicat Softening Temperature	214 °F	101 °C	ASTM D1525	
Melting Temperature (DSC)	255 °F	124 °C	ASTM D4591	
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method	
MAH Graft Level	Low (<0.25 wt%)	Low (<0.25 wt%)	Dow Method	
Extrusion	Nominal Value (English) Nominal Value (
Melt Temperature	428 to 536 °F	220 to 280 °C		

Extrusion Notes

Fabrication Conditions Film:

• Extrusion temperature for film: 220 - 280°C (428-536 °F)

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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