

AMPLIFY™ TY 1250H Functional Polymer

Overview

AMPLIFYTM TY Functional polymers are maleic anhydride grafted (MAH) polyolefins which are designed for the tie layer market segment. AMPLIFY TY 1250H is a high melt strength polymer with a high grafting level and is ideal for use in a blend where high melt strength, high adhesion to polar substrates, and toughness are desired properties. This grade is further designed to perform in the harsh extrusion conditions used in producing an extruded multi-layer construction.

Main Characteristics:

- · Strong adhesion to many polar substrates
- · Excellent physical properties
- · High melt strength
- · Wide range of process and service temperature
- · Low gels to ensure minimal defects

Complies with:

• U.S. FDA 21 CFR 177.1520(c)6

Consult the regulations for complete details.

Additive

· Antiblock: No

• Slip: No

· Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.921	g/cm³	0.921	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.50	g/10 min	0.50	g/10 min	ASTM D1238
MAH Graft Level ¹	High		High		Dow Method
Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Yellowness Index - (Pellets)	2.30		2.30		ASTM D2457
Extrusion	Nominal Value	(English)	Nominal Value	(SI)	
Melt Temperature	360 to 450	°F	182 to 232	°C	
Extrusion Notes					

Fabrication Conditions for Multi-layer Pipe Applications are not defined at this time.

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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¹ Maleic Anhydride level is defined as Low: <0.25 wt%, Medium 0.25-0.5 wt%, High >0.5 wt% MAH

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Additional Information

North America		Europe/Middle East	+800-3694-6367
U.S. & Canada:	1-800-441-4369		+31-11567-2626
	1-989-832-1426	Italy:	+800-783-825
Mexico:	+1-800-441-4369		
Latin America		South Africa	+800-99-5078
Argentina:	+54-11-4319-0100		
Brazil:	+55-11-5188-9000		
Colombia:	+57-1-219-6000	Asia Pacific	+800-7776-7776
Mexico:	+52-55-5201-4700		+603-7965-5392

www.dowplastics.com

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