AMPLIFY™ TY 1052H

Functional Polymer

The Dow Chemical Company

Message:

AMPLIFY™ TY 1052H Functional Polymer is a maleic anhydride grafted (MAH) polymer concentrate designed as a blend component for unmodified polyethylene and polypropylene. In tie layers for flexible packaging, AMPLIFY TY 1052H Functional Polymer promotes adhesion of polyethylene and polypropylene to barrier polymers such as polyamide and ethylene vinyl alcohol (EVOH). The functionality of this polymer also promotes adhesion between metal, polyolefins, cellulose, polyester, polycarbonate, glass, and foil.
Typical blending levels in polyethylene let-down resin are 20-25% for EVOH and 10-15% for nylon.
Main Characteristics:
Adhesive concentrate for use in blown, cast, and coating applications
Tie layer for food packaging and pipe coating
Adhesive layer in multi-layer flexible film applications
Polymer compatibilizer
Complies with:
U.S. FDA 21 CFR 175.105
EU, No 10/2011
Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 175.105 Europe No 10/2011		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.875	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238, ISO 1133
MAH Graft Level [1]	High		Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	77		ASTM D2240, ISO 868
Shaw D	21		ASTM D2240, ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	8.96	MPa	ASTM D638, ISO 527-2/51
Tensile Elongation (Break)	1000	%	ASTM D638, ISO 527-2/51
Flexural Modulus - 2% Secant	13.8	MPa	ASTM D790A, ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	40.0	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	62.8	°C	Internal method
Additional Information			
Molded in accordance with ASTM D4976.			
NOTE			
1.	Low: 0.5 wt%, Very High >1.0 wt%.		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China