

Dow AMPLIFY™ GR 209 Maleic anhydride grafted (MAH) polymer

Category : Polymer , Thermoplastic

Material Notes:

AMPLIFY™ GR 209 Functional Polymer is a post reactor maleic anhydride grafted (MAH) polymer. The base polymer is an ethylene-butene copolymer exhibiting high flexibility and elasticity. It can be utilized in monolayer and coextruded films and in blends with other polyolefins to enhance toughness of the structure. This product is a low gel MAH-grafted elastomer useful to improve impact resistance for polyamide or other engineering resins and to enhance interlayer adhesion in co-extruded films. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AMPLIFY-GR-209-Maleic-anhydride-grafted-MAH-polymer.php

Physical Properties	Metric	English	Comments
Density	0.8985 g/cc	0.03246 lb/in ³	ASTM D792
Filler Content	0.50 - 1.0 %	0.50 - 1.0 %	MAH graft; Dow Method
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	5 sec; ASTM D2240
	90	90	1 sec; ASTM D2240
Tensile Strength, Ultimate	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	800 %	800 %	ASTM D638
Flexural Modulus	0.0896 GPa	13.0 ksi	2% Secant; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	115 °C	239 °F	Dow Method
Glass Transition Temp, Tg	-49.0 °C	-56.2 °F	Dow Method

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