

Addcomp PRIEX® 20097 Maleic Anhydride Grafted PP homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Fields of application: Functionalised polypropylene to be used as compatibiliser for polymer blends or coupling agent for glass fibre, wood flour, natural fibres, multilayer films, aluminium foils, or mineral filled polypropylene. Examples: Compatibilising short-and long glass fibres and PP applications such as automotive applications (instrument panel carrier, front-end, door modules, etc.) and Wood filled polymer composites. Mode of action and advantages: PRIEX® 20097 is a polypropylene, grafted with a very high content of maleic anhydride. The grafted maleic anhydride introduces polarity to the polymer achieving compatibility between polyolefins and more polar polymers like EVOH. Advantages: Excellent mechanical properties, good cost / performance; Ultra low smell, low VOC and emissions; Excellent wetting properties as a result of very low viscosity (hyperfluid grade); Excellent coupling agent for short and long glass filled polyolefins providing enhanced physical, mechanical and thermal properties; Excellent coupling agent for natural fibre reinforced polymer composites or wood flour reinforced polymer composites; Free flowing pellets; and Safe and easy handling. Food contact: PRIEX® 20097 composition meets the requirements of Commission Directive 2002/72/EC and further amendments. Information provided by Addcomp Polymer Additive Solutions

Order this product through the following link:

http://www.lookpolymers.com/polymer_Addcomp-PRIEX-20097-Maleic-Anhydride-Grafted-PP-homopolymer.php

Physical Properties	Metric	English	Comments
Oxidative Induction Time (OIT)	25 min	25 min	ISO 11357-6
	@Temperature 190 °C	@Temperature 374 °F	
Melt Flow	25 - 30 g/10 min	25 - 30 g/10 min	die 8/1; ISO 1133
	@Load 1.20 kg, Temperature 190 °C	@Load 2.65 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.8 MPa	3600 psi	ISO 527-2
Elongation at Break	1.55 %	1.55 %	ISO 527-2
Modulus of Elasticity	1.70 GPa	247 ksi	1 mm/min; ISO 527-1

Thermal Properties	Metric	English	Comments
Melting Point	160 - 164 °C	320 - 327 °F	ISO 11357-3
Crystallization Temperature	113 - 115 °C	235 - 239 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	116.3 °C	241.3 °F	ISO 75

Processing Properties	Metric	English	Comments
Processing Temperature	<= 280 °C	<= 536 °F	

Descriptive Properties	Value	Comments
Appearance	White or slightly yellow granules	
Free Aleic Anhydride	<50 mg/kg	Solvay method
Grafted Maleic Anhydride	0.45%	Solvay method

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