

## Addcomp PRIEX® 25097 Maleic Anhydride Grafted PP random copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

**Fields of application:** Functionalised polypropylene to be used as compatibiliser for polymer blends or coupling agent for glass fiber, wood flour, natural fibers, multilayer films, aluminum foils, or mineral filled polypropylene. Examples: Compatibilising short- and long glass fibers 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® 25097 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; Lower melting point compared to similar PP homopolymer PRIEX® grades; 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 fiber reinforced polymer composites or wood flour reinforced polymer composites; Free flowing pellets; and Safe and easy handling. **Food contact:** PRIEX® 25093 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-25097-Maleic-Anhydride-Grafted-PP-random-copolymer.php](http://www.lookpolymers.com/polymer_Addcomp-PRIEX-25097-Maleic-Anhydride-Grafted-PP-random-copolymer.php)

Physical Properties	Metric	English	Comments
Oxidative Induction Time (OIT)	40 min	40 min	ISO 11357-6
	@Temperature 190 °C	@Temperature 374 °F	
Melt Flow	15 - 20 g/10 min	15 - 20 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	17.0 MPa	2470 psi	ISO 527-2
Elongation at Break	3.1 %	3.1 %	ISO 527-2
Modulus of Elasticity	0.717 GPa	104 ksi	1 mm/min; ISO 527-1

Thermal Properties	Metric	English	Comments
Melting Point	135 - 145 °C	275 - 293 °F	ISO 11357-3
Crystallization Temperature	90.0 °C	194 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ISO 75

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	$\leq 280\text{ }^{\circ}\text{C}$	$\leq 536\text{ }^{\circ}\text{F}$	
Descriptive Properties	Value		Comments
Appearance	White or slightly yellow granules		
Free Aleic Anhydride	<50 mg/kg		Solvay method
Grafted Maleic Anhydride	0.45-0.48%		Solvay method

## Contact Songhan Plastic Technology Co.,Ltd.

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