

Addcomp PRIEX® 15005 Maleic Anhydride modified LDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , Anhydride-Modified Polyethylene , LDPE

Material Notes:

Functionalised low density polyethylene to be used as compatibiliser for polymer blends or coupling agent for wood flour, natural fibres, or mineral filled polyolefins. Also suitable to reduce pigment-related warpage effects in polyolefins. Examples: Cable compounds, organic monopigment preparations and wood flour filled polymer composites (WPC's). Mode of action and advantages: PRIEX® 15005 is a polyethylene, grafted with an extra 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 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® 15005 composition meets the requirements of Commission Directive 2002/72/EC and further amendments. Information provided by ADDCOMP

Order this product through the following link:

http://www.lookpolymers.com/polymer_Addcomp-PRIEX-15005-Maleic-Anhydride-modified-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183-3
Oxidative Induction Time (OIT)	>= 20 min @Temperature 210 °C	>= 20 min @Temperature 410 °F	ISO 11357-6
Melt Flow	4.5 - 6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.5 - 6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	die 8/2; ISO 1133

Thermal Properties	Metric	English	Comments
Melting Point	106 °C	223 °F	ISO 11357-3

Processing Properties	Metric	English	Comments
Processing Temperature	<= 240 °C	<= 464 °F	

Descriptive Properties	Value	Comments
Appearance	White or slightly yellow granules	
Free Maleic Anhydride	<100 mg/kg	Slovay method
Grafted Maleic Anhydride	0.4-0.5%	Slovay method

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