

# XIBOND® 180

XIBOND® 180 is a reactive additive to improve the blend morphology of polymer blends; this additive is a random copolymer of styrene and maleic anhydride.

## Application areas

XIBOND® 180 is designed to act as blend optimizing additive for different functionalities such as compatibilizer, coupling agent, surface modifier and viscosity modifier.

## Product properties

XIBOND® 180 can be processed in all types of regular polymer processing equipment. For good dispersion in styrenic polymer like ABS, twin screw extruders with a mild screw configuration and vacuum degassing facility are recommended. To avoid product degradation, temperatures above 310 °C and high shear stresses should be avoided.

## Product use

It is recommended to use XIBOND® 180 in dosage levels of 0.1-5%.

## Storage and handling

Store at well ventilated and dry places, protected from heat and direct sunlight. Avoid excessive moisture. The granules ensure easy, dust free handling and can be added to the compounding extruder through regular feeder systems.

## Health and safety

All health related risks are mentioned in the Safety Data Sheet (SDS), which are available on [www.xibond.com](http://www.xibond.com). Please contact: [productstewardship@polyscope.eu](mailto:productstewardship@polyscope.eu) for more information.

General properties	Unit	Value	Test method
Bulk density	kg/dm <sup>3</sup>	0.6	Internal procedure
Physical appearance		Granules	
Color		Clear	

Specific properties	Unit	Value	Test method
Glass transition temperature	°C	165	ISO 3146
Molecular weight (M <sub>w</sub> )	g/mole	105,000	GPC
Acid value	mg KOH/g	320	ASTM D3644
Solution Viscosity	dl/g	0.44	ISO 1628
Thermal stability	10 °C/min, N <sub>2</sub>	280	Thermographic Analysis 1% loss
Thermal stability	10 °C/min, N <sub>2</sub>	290	Thermographic Analysis 2% loss

Compounding properties	Unit	Value
Pre drying temperature	°C	90
Pre drying time	hrs	2-3
Maximum processing temperature	°C	310

*Disclaimer: All information supplied by or on behalf of the Polyscope in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and believed reliable, but Polyscope assumes no liability whatsoever in respect of application, processing or use made of the afore mentioned information or products, or any consequence thereof. The user undertakes all liability in respect to the application, processing or use of the afore-mentioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to Polyscope for any infringement of the rights owned or controlled by a third party in intellectual, industrial or property by reason of the application, processing or use of the afore-mentioned information or products by the user.*