XIBOND 140

product information

XIBOND 140 is a reactive additive to improve the blend morphology of polymer blends; this additive is a random copolymer of styrene and maleic anhydride

product properties

XIBOND 140 can be processed in all types of regular polymer processing equipment. For good dispersion in styrenic polymers, such as ABS, twin screw extruders with a mild screw configuration and vacuum degassing facility are recommended. To avoid product degradation, temperatures above 335 °C as well as high shear stresses should be avoided.

applications

XIBOND 140 is designed to act as blend optimizing additive for different functionalities, such as:

- Compatibilizer
- Coupling agent
- Surface modifier
- Viscosity modifier

use level

It is recommended to use XIBOND 140 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

general properties

Appearance	Granules
Bulk density	0.6 kg/dm^3
Color	Clear

typical specific characteristics

Property	Value	Test method
Glass transition temperature	134 °C	ISO 3146
Molecular weight (M_w)	170,000 g/mol	GPC-SEC
Acid value	170 mg KOH/g	ASTM D3644
Solution viscosity	0.55 dL/g	ISO 1628
Thermal stability	315 °C	TGA; 1% weight loss
Thermal stability	325 °C	TGA; 2% weight loss

compounding properties

Pre-drying temperature	90 °C
Pre-drying time	2-3 hours
Maximum processing temperature	335 °C

Consult the Safety Data Sheet for hazard and regulatory information

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technical data sheet