

XIBOND® 285

XIBOND® 285 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® 285 is designed to act as blend optimizing additive for different functionalities such as compatibilizer, coupling agent, surface modifier and viscosity modifier.

Product properties

XIBOND® 285 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 275 °C and high shear stresses should be avoided.

Product use

It is recommended to use XIBOND® 285 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. Please contact: productstewardship@polyscope.eu for more information.

| General properties | Unit | Value | Test method |
|---------------------------|---------|--------|-------------|
| Physical appearance | | powder | |
| Color | | white | |
| Particle sie distribution | µm, D50 | < 150 | ISO 4610 |

| Specific properties | Unit | Value | Test method |
|------------------------------------|---------------------------|-------|--------------------------------|
| Glass transition temperature | °C | 130 | ISO 3146 |
| Molecular weight (M _w) | g/mole | 5,000 | GPC |
| Acid value | mg KOH/g | 480 | ASTM D3644 |
| Solution Viscosity | cSt | 0.70 | ASTM D1243 |
| Thermal stability | 10 °C/min, N ₂ | 230 | Thermographic Analysis 1% loss |
| Thermal stability | 10 °C/min, N ₂ | 250 | Thermographic Analysis 2% loss |

| Compounding properties | Unit | Value |
|--------------------------------|------|-------|
| Pre drying temperature | °C | 90 |
| Pre drying time | hrs | 2-3 |
| Maximum processing temperature | °C | 275 |

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