

XIRAN[®] IZ1018M

Technical datasheet

Version number 08
2017

XIRAN[®] IZ1018M is an amorphous thermoplastic random styrene maleic anhydride N-Phenylmaleimide (SMANPMI) terpolymer. XIRAN[®] IZ1018M is typically added to other engineering plastics to increase:

- thermal stability
- dimensional stability

Application areas

XIRAN[®] IZ1018M is specifically designed as an additive to increase the thermal properties of several engineering plastics especially in styrenics like ABS.

Product properties

XIRAN[®] IZ1018M 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 280°C and high shear stresses should be avoided.

Product use

XIRAN[®] IZ1018M can be used with dosage levels up to 40%. The addition of XIRAN[®] IZ1018M can be added for enhancing temperature and dimensional stability, surface adhesion properties and melt viscosity in a number of polymer systems, specifically in ABS.

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). Please contact: productstewardship@polyscope.eu to receive the SDS.

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General properties

	Unit	Typical value	Test method
Bulk density	g/cm ³	0.6	Internal procedure
Physical appearance		Granules (~4 mm)	
Color		Yellow	

Specific properties

	Unit	Typical value	Test method
Maleic anhydride content	%	10	Internal
Glass transition temperature (T _g)	°C	175	ISO 3146
Molecular weight (M _w)	g/mole	145,000	GPC
MFI (265 °C, 10 kg)	g/10 min	50	ISO 1133
Thermal stability	°C	390	TGA onset

Compounding properties

	Unit	Value
Pre drying temperature	°C	80-90
Pre drying time	hrs	2-3
Die temperature	°C	240-270
Barrel temperature	°C	230-250
Maximum processing temperature	°C	280



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