

XIRAN® IZ1018M

Styrene Maleic Anhydride

Polyscope Polymers BV

Message:

XIRAN® IZ1018M is an amorphous thermoplastic random SMANPMI (styrene maleic anhydride N-Phenylmaleimide) terpolymers. 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 styrenic like ABS

General Information	
Features	Good dimensional stability Thermal stability, good amorphous
Uses	High temperature application Plastic modification
Appearance	Yellow
Forms	Particles
Processing Method	Composite Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Apparent Density	0.60	g/cm ³	Internal method
Melt Mass-Flow Rate (MFR) (265°C/10.0 kg)	50	g/10 min	ISO 1133
Maleic Anhydride Content - Calculated	10	%	Internal method
Molecular weight-Calculated	145000	g/mol	Internal method
Thermal Stability	390	°C	TGA
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	175	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	230 - 250	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	230 - 250	°C	
Nozzle Temperature	240 - 270	°C	
Processing (Melt) Temp	< 280	°C	

Extrusion	Nominal Value	Unit
Drying Temperature	80.0 - 90.0	°C
Drying Time	2.0 - 3.0	hr
Cylinder Zone 1 Temp.	230 - 250	°C
Cylinder Zone 2 Temp.	230 - 250	°C
Cylinder Zone 3 Temp.	230 - 250	°C
Cylinder Zone 4 Temp.	230 - 250	°C
Cylinder Zone 5 Temp.	230 - 250	°C
Die Temperature	240 - 270	°C
Extrusion instructions		

Maximum processing temperature: 280°C

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