

XIRAN® SZ15170

Styrene Maleic Anhydride

Polyscope Polymers BV

Message:

XIRAN® SZ15170 is an amorphous thermoplastic random SMA (styrene maleic anhydride) copolymer. XIRAN® SZ15170 is typically added to other engineering plastics to increase:

- thermal stability
- dimensional stability
- surface adhesion properties

Application areas

XIRAN® SZ15170 is specifically designed to be used in film extrusion applications or in combination with an impact modifier like ABS or HIPS as an extrusion or injection molding grade.

General Information	
Features	Good dimensional stability Copolymer Good adhesion Thermal stability, good
Uses	Films Plastic modification
Appearance	White Clear/transparent
Forms	Particles
Processing Method	Film extrusion Composite Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Apparent Density	0.60	g/cm ³	Internal method
Maleic Anhydride Content	15	%	Internal method
Molecular Weight	170000	g/mol	Internal method
Moisture Content		ppm	ISO 760
Pellet Size	4.00	mm	
Polydispersity - (Mw/Mn)	2.50		ISO 13885-1
Volatiles		ppm	GC
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	130	°C	ISO 3146
Vicat Softening Temperature	125	°C	ISO 306

Injection	Nominal Value	Unit
Drying Temperature	80.0 - 90.0	°C
Drying Time	2.0 - 3.0	hr
Rear Temperature	210 - 240	°C
Middle Temperature	210 - 240	°C
Front Temperature	210 - 240	°C
Processing (Melt) Temp	< 280	°C

Injection instructions

Optimum processing temperature: 220-260°C

Extrusion	Nominal Value	Unit
Drying Temperature	80.0 - 90.0	°C
Drying Time	2.0 - 3.0	hr
Cylinder Zone 1 Temp.	210 - 240	°C
Cylinder Zone 2 Temp.	210 - 240	°C
Cylinder Zone 3 Temp.	210 - 240	°C
Cylinder Zone 4 Temp.	210 - 240	°C
Cylinder Zone 5 Temp.	210 - 240	°C

Extrusion instructions

Optimum processing temperature: 220-260°C Maximum processing temperature: 280°C

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