

XIRAN® SM200

Styrene Maleic Anhydride

Polyscope Polymers BV

Message:

XIRAN® SM200 are SMA (styrene maleic anhydride) based injection molding compounds with:

high thermal stability

high dimensional stability

excellent surface adhesion properties

Application areas

XIRAN® SM200 is a injection molding compound designed for applications with high stiffness- strength. These products are very suitable for painted and foamed parts, high temperature resistance and precision parts with high shot to shot consistency.

General Information			
Features	Foamable		
	Good Adhesion		
	Good Dimensional Stability		
	Good Thermal Stability		
	High Stiffness		
	High Strength		
	Paintable		
Uses	Foam		
	High Temperature Applications		
Forms	Granules		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	22	g/10 min	ISO 1133
Spiral Flow ¹	32.0	cm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow	0.61	%	
Flow	0.25	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	32.0	MPa	
Break	30.0	MPa	

Tensile Strain (Break)	18	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	62.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	7.0	kJ/m ²	
23°C	14	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	45	kJ/m ²	
23°C	55	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-40°C	7.0	kJ/m ²	
23°C	14	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Vicat Softening Temperature	120	°C	ISO 306/B
CLTE			ASTM D696
Flow : -30 to 80°C	4.2E-5	cm/cm/°C	
Transverse : -30 to 80°C	5.5E-6	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	230 to 250	°C	
Middle Temperature	230 to 250	°C	
Front Temperature	230 to 250	°C	
Nozzle Temperature	245 to 275	°C	
Processing (Melt) Temp	< 285	°C	
NOTE			
1.	2 mm		
2.	Measured according to the Autodesk Mold flow Plastics Labs using a tag mold.		

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