

XIRAN® SE700

Styrene Maleic Anhydride

Polyscope Polymers BV

Message:

XIRAN® SE700 are SMA (styrene maleic anhydride) based compounds especially designed for extrusion processes with:

high thermal stability

high dimensional stability

excellent surface adhesion properties

Application areas

XIRAN® SE700 is designed for extrusion processes and designed to optimize the Vicat properties of (high impact) polystyrene. 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	Good dimensional stability		
	Impact resistance, good		
	Foamable property		
	Sprayable		
	Good adhesion		
	Thermal stability, good		
Uses	High temperature application		
	Foam		
Forms	Particles		
Processing Method	Composite		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	22	g/10 min	ISO 1133
Spiral Flow ¹	36.0	cm	Internal method
Molding Shrinkage ²			Internal method
Vertical flow direction	0.50	%	Internal method
Flow direction	0.20	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	36.0	MPa	ISO 527-2
Fracture	35.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2

Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	5.0	kJ/m ²	ISO 179/1eA
23°C	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	30	kJ/m ²	ISO 179/1eU
23°C	30	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/A
-40°C	5.0	kJ/m ²	ISO 180/A
23°C	9.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	92.0	°C	ISO 75-2/A
Vicat Softening Temperature	115	°C	ISO 306/B
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 80°C	2.9E-5	cm/cm/°C	ASTM D696
Horizontal: -30 to 80°C	4.7E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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	
Extrusion instructions			
Maximum processing temperature: 285°C			
NOTE			
1.	2 mm		
2.	Measured according to the Autodesk Mold flow Plastics Labs using a tag mold.		

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