XIRAN® SG240

Styrene Maleic Anhydride

Polyscope Polymers BV

Message:

XIRAN® SG240 are SMA (styrene maleic anhydride) based injection molding compounds with:
high thermal stability
high dimensional stability
excellent surface adhesion properties
XIRAN® SG240 is available in a standard black (B) and natural (N).
Application areas
XIRAN® SG240 is a 20% glass filled 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	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight
Features	Foamable Good Adhesion Good Dimensional Stability Good Thermal Stability High Stiffness High Strength Paintable
Uses	Foam High Temperature Applications
Appearance	Black Natural Color
Forms	Granules
Processing Method	Compounding Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	9.0	g/10 min	ISO 1133
Spiral Flow [1]	26.0	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	6000	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	2.4	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	132	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	9.0	kJ/m^2	
23°C	10	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	35	kJ/m^2	
23°C	30	kJ/m^2	
Notched Izod Impact Strength			ISO 180/A
-40°C	9.0	kJ/m^2	
23°C	10	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	118	°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-5	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.		

Recommended distributors for this material

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