XAREC™ S123

Syndiotactic Polystyrene

Idemitsu Kosan Co., Ltd.

Message:

XAREC™ S123 is a Syndiotactic Polystyrene (SPS) product filled with 17% glass fiber. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,17% Filler by Weight		
UL File Number	E48268		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.14	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.30 to 0.80	%	
Flow	0.30 to 0.60	%	
Water Absorption [1] (Equilibrium, 23°C, 50% RH)	0.010	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6200	MPa	ISO 527-2
Tensile Stress (Break)	85.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	5900	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	11	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179
Notched Izod Impact Strength (23°C)	11	kJ/m²	ISO 180
Unnotched Izod Impact Strength (23°C)	31	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed [2]	265	°C	ISO 75-2/B
1.8 MPa, Unannealed [3]	210	°C	ISO 75-2/A
1.8 MPa, Unannealed [4]	180	°C	ISO 75-2/A
CLTE			TMA
Flow : -30 to 30°C	2.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.7E-5	cm/cm/°C	
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	

Drying Time	3.0 to 5.0	hr
Processing (Melt) Temp	280 to 310	°C
Mold Temperature	50.0 to 80.0	°C

NOTE	
1.	24h
2.	Mold temperature: 150°C
3.	Mold temperature: 150°C
4.	Mold temperature: 80°C

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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