

XAREC™ WA 210

Syndiotactic Polystyrene

Idemitsu Kosan Co., Ltd.

Message:

XAREC™ WA 210 is a Syndiotactic Polystyrene (SPS) product filled with 20% 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			
UL YellowCard	E48268-519726		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
UL File Number	E48268		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.30 to 0.50	%	
Flow	0.20 to 0.40	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7300	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Flexural Modulus	7000	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	11	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	35	kJ/m ²	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	235	°C	ISO 75-2/A
1.8 MPa, Unannealed ⁴	220	°C	ISO 75-2/A
CLTE			TMA
Flow : -30 to 30°C	2.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.8E-5	cm/cm/°C	
RTI Elec	110	°C	UL 746
RTI Imp	110	°C	UL 746
RTI Str	105	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	25	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.10		IEC 60250
Dissipation Factor (1 MHz)	1.0E-3		IEC 60250
Arc Resistance	PLC 5		ASTM D495
Comparative Tracking Index (CTI) ⁵	PLC 2		IEC 60112
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		
3.00 mm	PLC 0		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (> 1.50 mm)	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		
5.	Solution A		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT