

XAREC™ WA 212

Syndiotactic Polystyrene

Idemitsu Kosan Co., Ltd.

Message:

XAREC™ WA 212 is a Syndiotactic Polystyrene (SPS) product filled with 30% 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	E48268-519728		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
UL File Number	E48268		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.30 to 0.50	%	
Flow	0.10 to 0.30	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9400	MPa	ISO 527-2
Tensile Stress (Break)	125	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	9200	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	46	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	12	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	40	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	240	°C	ISO 75-2/A
1.8 MPa, Unannealed ⁴	235	°C	ISO 75-2/A
CLTE			TMA
Flow : -30 to 30°C	2.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.7E-5	cm/cm/°C	
RTI Elec	110	°C	UL 746
RTI Imp	110	°C	UL 746
RTI Str	110	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	45	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 0		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 2		
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		

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