

XAREC™ N WA 7020

Syndiotactic Polystyrene + Nylon

Idemitsu Kosan Co., Ltd.

Message:

XAREC™ N WA 7020 is a Syndiotactic Polystyrene + Nylon (SPS+Nylon) product filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
UL File Number	E48268		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.80	%	
Flow	0.30 to 0.60	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7300	MPa	ISO 527-2
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Break)	2.9	%	ISO 527-2
Flexural Modulus	6700	MPa	ISO 178
Flexural Stress	215	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	8.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	45	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ²			
0.45 MPa, Unannealed	260	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	°C	ISO 75-2/A
CLTE			TMA
Flow : -30 to 30°C	3.0E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.4E-5	cm/cm/°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.1E+15	ohms · cm	IEC 60093
Dielectric Strength	25	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	3.10	IEC 60250	
Dissipation Factor (1 MHz)	0.034	IEC 60250	
Arc Resistance	PLC 5	ASTM D495	
Comparative Tracking Index (CTI) ³	PLC 1	IEC 60112	
High Amp Arc Ignition (HAI)		UL 746	
1.50 mm	PLC 0		
3.00 mm	PLC 0		
Hot-wire Ignition (HWI)		UL 746	
1.50 mm	PLC 5		
3.00 mm	PLC 4		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (> 1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	80.0	°C	
Drying Time - Desiccant Dryer	1.0 to 3.0	hr	
Processing (Melt) Temp	280 to 310	°C	
Mold Temperature	50.0 to 80.0	°C	
NOTE			
1.	24h		
2.	Mold temperature: 80°C		
3.	Solution A		

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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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