

Idemitsu Kosan Xarec[®] N WA 7020 SPS, 20% Glass Filled

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS) , Syndiotactic Polystyrene (SPS) with Glass or Carbon Fiber

Material Notes:

Crystalline Polymer Blend, Glass Filled, Impact Modified. Used in Automotive Electronics applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Idemitsu-Kosan-Xarec-N-WA-7020-SPS-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	
Filler Content	20 %	20 %	
Water Absorption	0.22 %	0.22 %	24 hrs., 50% RH
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	
Elongation at Break	2.9 %	2.9 %	
Tensile Modulus	7.30 GPa	1060 ksi	
Flexural Yield Strength	215 MPa	31200 psi	
Flexural Modulus	6.70 GPa	972 ksi	
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	54.0 Åµm/m-Å°C	30.0 Åµin/in-Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	240 Å°C	464 Å°F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric C	English	Comments
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL746B
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.10e+15 ohm-cm	3.10e+15 ohm-cm	
Dielectric Constant	3.1	3.1	
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D145
Dissipation Factor	0.034	0.034	IEC 60250
Arc Resistance	120 - 180 sec	120 - 180 sec	ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	IEC 60112
Hot Wire Ignition, HWI	0.00 - 7.0 sec @Thickness 1.50 mm	0.00 - 7.0 sec @Thickness 0.0591 in	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 310 Â°C	536 - 590 Â°F	
Mold Temperature	50.0 - 80.0 Â°C	122 - 176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	1 - 3 hrs

Descriptive Properties	Value	Comments
Comments	High Ductility	
	Nylon/SPS blend	

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