

Idemitsu Kosan Xarec® N WA 5030 SPS, 30% Glass Filled

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Idemitsu-Kosan-Xarec-N-WA-5030-SPS-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	
Filler Content	30 %	30 %	
Water Absorption	0.19 %	0.19 %	24 hrs., 50% RH
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	
Elongation at Break	2.4 %	2.4 %	
Tensile Modulus	10.0 GPa	1450 ksi	
Flexural Yield Strength	235 MPa	34100 psi	
Flexural Modulus	9.40 GPa	1360 ksi	
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	
Charpy Impact Unnotched	4.70 J/cm ²	22.4 ft-lb/in ²	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 Åµm/m-Å°C	12.8 Åµin/in-Å°F	
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	43.0 Åµm/m-Å°C	23.9 Åµin/in-Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C	500 Å°F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	245 Â°C Metric	473 Â°F 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	7.40e+15 ohm-cm	7.40e+15 ohm-cm	
Dielectric Constant	3.3	3.3	
Dielectric Strength	22.0 kV/mm	559 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	250 - 400 V	250 - 400 V	IEC 60112
Hot Wire Ignition, HWI	7.0 - 15 sec @Thickness 1.50 mm	7.0 - 15 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	Nylon/SPS blend	
	Optimized dimensional stability	

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