

## Idemitsu Kosan Xarec<sup>®</sup> N WA 7030 SPS, 30% 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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Idemitsu-Kosan-Xarec-N-WA-7030-SPS-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_Idemitsu-Kosan-Xarec-N-WA-7030-SPS-30-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	
Filler Content	30 %	30 %	
Water Absorption	0.20 %	0.20 %	24 hrs., 50% RH
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	
Elongation at Break	2.6 %	2.6 %	
Tensile Modulus	10.0 GPa	1450 ksi	
Flexural Yield Strength	250 MPa	36300 psi	
Flexural Modulus	9.10 GPa	1320 ksi	
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	
Izod Impact, Unnotched (ISO)	57.0 kJ/m <sup>2</sup>	27.1 ft-lb/in <sup>2</sup>	
Charpy Impact Unnotched	6.80 J/cm <sup>2</sup>	32.4 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 Åµm/m-Å°C	13.3 Åµin/in-Å°F	
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	49.0 Åµm/m-Å°C	27.2 Åµin/in-Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C	500 Å°F	

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	6.70e+15 ohm-cm	6.70e+15 ohm-cm	
Dielectric Constant	3.2	3.2	
Dielectric Strength	18.0 kV/mm	457 kV/in	ASTM D145
Dissipation Factor	0.069	0.069	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 Å°C	536 - 590 Å°F	
Mold Temperature	50.0 - 80.0 Å°C	122 - 176 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	1 - 3 hrs

Descriptive Properties	Value	Comments
Comments	High Ductility	
	Nylon/SPS blend	

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China