

Idemitsu Kosan Xarec[®] WA 214LG SPS, 40% Glass Filled

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

Material Notes:

Crystalline Polymer, Glass Filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_idemitsu-Kosan-Xarec-WA-214LG-SPS-40-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	
Filler Content	40 %	40 %	
Water Absorption	0.010 %	0.010 %	24 hrs., 50% RH
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	
Elongation at Break	1.5 %	1.5 %	
Tensile Modulus	13.7 GPa	1990 ksi	
Flexural Yield Strength	220 MPa	31900 psi	
Flexural Modulus	13.2 GPa	1910 ksi	
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	
Charpy Impact Unnotched	4.20 J/cm ²	20.0 ft-lb/in ²	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Åµm/m-Å°C	8.33 Åµin/in-Å°F	
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	38.0 Åµm/m-Å°C	21.1 Åµin/in-Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	270 Å°C	518 Å°F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric	English	Comments
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Constant	3.1	3.1	
Dielectric Strength	26.0 kV/mm	660 kV/in	ASTM D145
Dissipation Factor	0.0010	0.0010	IEC 60250

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	
	130 - 155 Å°C	266 - 311 Å°F	For optimal surface finish

Descriptive Properties	Value	Comments
Comments	low outgassing @ elevated temperatures	
	No mold release	

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