

Idemitsu Kosan Xarec® D132 SPS, 25% 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-D132-SPS-25-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	
	1.24 g/cc	0.0448 lb/in ³	
Filler Content	25 %	25 %	
	25 %	25 %	
Water Absorption	0.010 %	0.010 %	24 hrs., 50% RH
	0.010 %	0.010 %	24 hrs., 50% RH
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	
	125 MPa	18100 psi	
Elongation at Break	2.3 %	2.3 %	
	2.3 %	2.3 %	
Tensile Modulus	8.20 GPa	1190 ksi	
	8.20 GPa	1190 ksi	
Flexural Yield Strength	195 MPa	28300 psi	
	195 MPa	28300 psi	
Flexural Modulus	7.80 GPa	1130 ksi	
	7.80 GPa	1130 ksi	
Izod Impact, Notched (ISO)			

Mechanical Properties	Metric	English	Comments
	13.0 kJ/mÂ²	6.19 ft-lb/inÂ²	
Izod Impact, Unnotched (ISO)	43.0 kJ/mÂ²	20.5 ft-lb/inÂ²	
Charpy Impact Unnotched	4.70 J/cmÂ²	22.4 ft-lb/inÂ²	
Charpy Impact, Notched	1.40 J/cmÂ²	6.66 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	39.0 Âµm/m-Â°C	21.7 Âµin/in-Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C	275 Â°F	
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 310 Â°C	536 - 590 Â°F	
Mold Temperature	60.0 - 120 Â°C	140 - 248 Â°F	

Descriptive Properties	Value	Comments
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Comments NSF61

SPS blend optimized for ductility & fatigue resistance

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