

Idemitsu Kosan Xarec® EA 537 SPS, 30% Glass Filled

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

Material Notes:

Crystalline Polymer, Glass Filled, Ignition Resistant, Impact Modified. Used in Electronic and Electrical applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_Idemitsu-Kosan-Xarec-EA-537-SPS-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	
Filler Content	30 %	30 %	
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	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	11.6 GPa	1680 ksi	
Flexural Yield Strength	185 MPa	26800 psi	
Flexural Modulus	10.9 GPa	1580 ksi	
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	
Charpy Impact Unnotched	3.20 J/cm ²	15.2 ft-lb/in ²	
Charpy Impact, Notched	1.00 J/cm ²	4.76 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	47.0 Åµm/m-Å°C	26.1 Åµin/in-Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	265 Å°C	509 Å°F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric °C	English	Comments
UL RTI, Electrical	125 Å°C	257 Å°F	UL746B
UL RTI, Mechanical with Impact	120 Å°C	248 Å°F	UL746B
UL RTI, Mechanical without Impact	120 Å°C	248 Å°F	UL746B
Flammability, UL94	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	
	@Thickness 2.30 mm	@Thickness 0.0906 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Constant	3.2	3.2	
Dielectric Strength	32.0 kV/mm	813 kV/in	ASTM D145
Dissipation Factor	0.0020	0.0020	IEC 60250
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	IEC 60112
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
	@Thickness 1.50 mm	@Thickness 0.0591 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
	@Thickness 1.50 mm	@Thickness 0.0591 in	
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL746A

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

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Comments		ISO10993	
		Thin wall V0 & 5VA	

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