

Piezo Kinetics 532 Lead Zirconate Titanate Piezoelectric

Category : Ceramic , Oxide , Titanium Oxide , Zirconium Oxide , Piezoelectric

Material Notes:

Denoted as Navy Type V, this ceramic is used as sensors that require low impedance, high dielectric constant and high sensitivity. Elastic Compliance s11E (x 10⁻¹² m²/n): 15.9. Elastic Compliance s33E (x 10⁻¹² m²/n): 18. Property data at 25°C. Information supplied by Piezo Kinetics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Piezo-Kinetics-532-Lead-Zirconate-Titanate-Piezoelectric.php

Physical Properties	Metric	English	Comments
Density	7.60 g/cc	0.275 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	63.0 GPa	9140 ksi	
Poissons Ratio	0.31	0.31	
Shear Modulus	24.0 GPa	3480 ksi	calculated

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	Maximum Operating Temperature

Electrical Properties	Metric	English	Comments
Curie Temperature	220 °C	428 °F	
Dielectric Constant	2700	2700	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.020	0.020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Piezoelectric Longitudinal Coupling Factor, k33	0.70	0.70	
Piezoelectric Transverse Voltage Coefficient, d31, 10 ⁻¹² m/V	-230	-230	
Piezoelectric Shear Charge Coefficient, d15, 10 ⁻¹² m/V	670	670	
Piezoelectric Longitudinal Voltage Coefficient, g33, 10 ⁻³ V-m/N	20.5	20.5	
Piezoelectric Planar Coupling Factor, kp	0.63	0.63	

Piezoelectric Mechanical Q Electrical Properties	75 Metric	75 English	Comments
Piezoelectric Shear Coupling Factor, k15	0.67	0.67	
Piezoelectric Longitudinal Charge Coefficient, d33, 10 ⁻¹² m/V	490	490	
Piezoelectric Transverse Voltage Coefficient, g31, 10 ⁻³ V-m/N	-9.60	-9.60	
Piezoelectric Shear Voltage Coefficient, g15, 10 ⁻³ V-m/N	28	28	
Piezoelectric Transverse Coupling Factor, k31	0.36	0.36	

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