

Piezo Kinetics 700 Lead Zirconate Titanate Piezoelectric

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

Material Notes:

This material has low dielectric constant, high QM, high shear coupling coefficient, good temperature stability and low aging characteristics. Common use of this material is in delay lines and accelerometers. Elastic Compliance s11E (x 10⁻¹² m²/n): 10.8. Elastic Compliance s33E (x 10⁻¹² m²/n): 13.9. 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-700-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	86.0 GPa	12500 ksi	
Poissons Ratio	0.25	0.25	
Shear Modulus	34.0 GPa	4930 ksi	calculated

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	Maximum Operating Temperature

Electrical Properties	Metric	English	Comments
Curie Temperature	350 °C	662 °F	
Dielectric Constant	425	425	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.015	0.015	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Piezoelectric Longitudinal Coupling Factor, k33	0.66	0.66	
Piezoelectric Transverse Voltage Coefficient, d31, 10 ⁻¹² m/V	-60.0	-60.0	
Piezoelectric Shear Charge Coefficient, d15, 10 ⁻¹² m/V	362	362	
Piezoelectric Longitudinal Voltage Coefficient, g33, 10 ⁻³ V-m/N	39.9	39.9	
Piezoelectric Planar Coupling Factor, kp	0.51	0.51	

Piezoelectric Mechanical Q Electrical Properties	600 Metric	600 English	Comments
Piezoelectric Shear Coupling Factor, k15	0.67	0.67	
Piezoelectric Longitudinal Charge Coefficient, d33, 10 ⁻¹² m/V	150	150	
Piezoelectric Transverse Voltage Coefficient, g31, 10 ⁻³ V-m/N	-16.0	-16.0	
Piezoelectric Shear Voltage Coefficient, g15, 10 ⁻³ V-m/N	52	52	
Piezoelectric Transverse Coupling Factor, k31	0.30	0.30	

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