

Piezo Kinetics 406 Lead Zirconate Titanate Piezoelectric

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

Material Notes:

Denoted as Navy Type I, it is designed to serve as a driver where high power and low losses are dictated by design. It is primarily well suited for ultrasonic cleaners and sonars. PKI 406 is suitable for medical applications. Elastic Compliance s11E (x 10⁻¹² m²/n): 14.1. Elastic Compliance s33E (x 10⁻¹² m²/n): 16.1. 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-406-Lead-Zirconate-Titanate-Piezoelectric.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	72.0 GPa	10400 ksi	
Poissons Ratio	0.22	0.22	
Shear Modulus	30.0 GPa	4350 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	300 °C	572 °F	
Dielectric Constant	1500	1500	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Piezoelectric Longitudinal Coupling Factor, k33	0.70	0.70	
Piezoelectric Transverse Voltage Coefficient, d31, 10 ⁻¹² m/V	-150	-150	
Piezoelectric Shear Charge Coefficient, d15, 10 ⁻¹² m/V	500	500	
Piezoelectric Longitudinal Voltage Coefficient, g33, 10 ⁻³ V-m/N	24.1	24.1	
Piezoelectric Planar Coupling Factor, kp	0.55	0.55	

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	320	320	
Piezoelectric Transverse Voltage Coefficient, g31, 10 ⁻³ V-m/N	-11.3	-11.3	
Piezoelectric Shear Voltage Coefficient, g15, 10 ⁻³ V-m/N	37.7	37.7	
Piezoelectric Transverse Coupling Factor, k31	0.35	0.35	

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