Piezo Kinetics 502 Lead Zirconate Titanate Piezoelectric

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

Material Notes:

Denoted as Navy Type II, it is designed for applications that require high electromechanical activity and high dielectric constant. These are used primarily as receivers e.g. hydrophones, phono pickups, sound detectors, accelerometers, delay lines, flow detectors and flow meters.Elastic Compliance s11E (x 10-12 m²/n): 15.4.Elastic Compliance s33E (x 10-12 m²/n): 18.4.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-502-Lead-Zirconate-Titanate-Piezoelectric.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	71.0 GPa	10300 ksi	
Poissons Ratio	0.31	0.31	
Shear Modulus	27.0 GPa	3920 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	1800 @Frequency 1000 Hz	1800 @Frequency 1000 Hz	
Dissipation Factor	0.015 @Frequency 1000 Hz	0.015 @Frequency 1000 Hz	
Piezoelectric Longitudinal Coupling Factor, k33	0.69	0.69	
Piezoelectric Transverse Voltage Coefficient, d31, 10^-12 m/V	-175	-175	
Piezoelectric Shear Charge Coefficient, d15, 10^-12 m/V	580	580	
Piezoelectric Longitudinal Voltage Coefficient, g33, 10^-3 V-m/N	25.1	25.1	
Piezoelectric Planar Coupling Factor,			

Electrical Properties	Metric	English	Comments
kp	0.60	0.60	
Piezoelectric Mechanical Q	80	80	
Piezoelectric Shear Coupling Factor, k15	0.69	0.69	
Piezoelectric Longitudinal Charge Coefficient, d33, 10^-12 m/V	400	400	
Piezoelectric Transverse Voltage Coefficient, g31, 10^-3 V-m/N	-11.0	-11.0	
Piezoelectric Shear Voltage Coefficient, g15, 10^-3 V-m/N	36.4	36.4	
Piezoelectric Transverse Coupling Factor, k31	0.34	0.34	

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