

## Piezo Kinetics 802 Lead Zirconate Titanate Piezoelectric

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

### Material Notes:

Denoted as Navy Type III, it is specifically used as a driver that exhibits low losses under extreme driving conditions and has a high Q. PKI 804 is well suited for medical applications. Elastic Compliance s<sub>11E</sub> (x 10<sup>-12</sup> m<sup>2</sup>/n): 10.4. Elastic Compliance s<sub>33E</sub> (x 10<sup>-12</sup> m<sup>2</sup>/n): 13.5. 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-802-Lead-Zirconate-Titanate-Piezoelectric.php](http://www.lookpolymers.com/polymer_Piezo-Kinetics-802-Lead-Zirconate-Titanate-Piezoelectric.php)

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

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	72.0 GPa	10400 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	1000	1000	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0040	0.0040	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Piezoelectric Longitudinal Coupling Factor, k <sub>33</sub>	0.61	0.61	
Piezoelectric Transverse Voltage Coefficient, d <sub>31</sub> , 10 <sup>-12</sup> m/V	-100	-100	
Piezoelectric Shear Charge Coefficient, d <sub>15</sub> , 10 <sup>-12</sup> m/V	320	320	
Piezoelectric Longitudinal Voltage Coefficient, g <sub>33</sub> , 10 <sup>-3</sup> V-m/N	24.9	24.9	
Piezoelectric Planar Coupling Factor, k <sub>p</sub>	0.51	0.51	

Piezoelectric Mechanical Q Electrical Properties	900 Metric	900 English	Comments
Piezoelectric Shear Coupling Factor, k15	0.54	0.54	
Piezoelectric Longitudinal Charge Coefficient, d33, 10 <sup>-12</sup> m/V	220	220	
Piezoelectric Transverse Voltage Coefficient, g31, 10 <sup>-3</sup> V-m/N	-11.3	-11.3	
Piezoelectric Shear Voltage Coefficient, g15, 10 <sup>-3</sup> V-m/N	36.2	36.2	
Piezoelectric Transverse Coupling Factor, k31	0.30	0.30	

## Contact Songhan Plastic Technology Co.,Ltd.

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