

Piezo Kinetics 804 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 s11E (x 10⁻¹² m²/n): 10.6.Elastic Compliance s33E (x 10⁻¹² m²/n):

13.2.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-804-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	73.0 GPa	10600 ksi	
Poissons Ratio	0.25	0.25	
Shear Modulus	29.0 GPa	4210 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	320 °C	608 °F	
Dielectric Constant	1050	1050	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0040	0.0040	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Piezoelectric Longitudinal Coupling Factor, k33	0.60	0.60	
Piezoelectric Transverse Voltage Coefficient, d31, 10 ⁻¹² m/V	-100	-100	
Piezoelectric Shear Charge Coefficient, d15, 10 ⁻¹² m/V	320	320	
Piezoelectric Longitudinal Voltage Coefficient, g33, 10 ⁻³ V-m/N	25.8	25.8	
Piezoelectric Planar Coupling Factor, kp	0.47	0.47	

Piezoelectric Mechanical Q Electrical Properties	900 Metric	900 English	Comments
Piezoelectric Shear Coupling Factor, k15	0.55	0.55	
Piezoelectric Longitudinal Charge Coefficient, d33, 10 ⁻¹² m/V	240	240	
Piezoelectric Transverse Voltage Coefficient, g31, 10 ⁻³ V-m/N	-10.8	-10.8	
Piezoelectric Shear Voltage Coefficient, g15, 10 ⁻³ V-m/N	34.4	34.4	
Piezoelectric Transverse Coupling Factor, k31	0.30	0.30	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China