

CeramTec Sonox® P6 Piezoceramic

Category : Ceramic , Oxide , Piezoelectric

Material Notes:

Piezoceramic devices are used to convert mechanical features such as pressure or acceleration into voltages, or conversely, to convert a voltage into mechanical motion or oscillation. Piezoceramics require very little energy and their shape potential is almost unlimited. Such properties allow this material to be used in wide-ranging apparatus and mechanical engineering applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-Sonox-P6-Piezoceramic.php

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

Electrical Properties	Metric	English	Comments
Curie Temperature	390 °C	734 °F	Tc
Dielectric Constant	350	350	e11 S/e?
	440	440	e11 T/e?
	490	490	e33 S/e?
	650	650	e33 T/e?
Dissipation Factor	0.0040	0.0040	tand
Piezoelectric Longitudinal Coupling Factor, k33	0.48	0.48	
Piezoelectric Transverse Voltage Coefficient, d31, 10 ⁻¹² m/V	-55.0	-55.0	
Piezoelectric Longitudinal Voltage Coefficient, g33, 10 ⁻³ V-m/N	21.5	21.5	
Piezoelectric Planar Coupling Factor, kp	0.35	0.35	
Piezoelectric Mechanical Q	1100	1100	
Piezoelectric Shear Coupling Factor, k15	0.46	0.46	
Piezoelectric Longitudinal Charge Coefficient, d33, 10 ⁻¹² m/V	135	135	
Piezoelectric Transverse Coupling Factor, k31	0.21	0.21	

Descriptive Properties	Value	Comments
Aging Rates (%/decade)		Cf

Descriptive Properties	Value	Comments
	-0.5	Ce
	-1.2	Ck
Elastic Compliance (10 ⁻¹² m ² /N)	11.6	s11 ^E
	13.7	s33 ^E
Elastic Rigidity (10 ¹⁰ N/m ²)	16.1	c33 ^D
Frequency Constants (kHz·mm)	1560	N3
	1670	N1
	2095	Nt
	2540	Np
Piezoelectric Coupling Coefficient, kt	0.38	
Piezoelectric Voltage Coefficient, e33 (C/m ²)	10	

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