

Channel Industries 1300 Barium Titanate Piezoelectric

Category : Ceramic , Oxide , Titanium Oxide , Piezoelectric

Material Notes:

Navy IV type Modified barium titanates are widely used in transducers requiring moderate power level and receiving sensitivity. Special characteristics have made barium titanate a proven material for use in devices such as depth sounders and expendable hydrophones. Uses of this grade include: Low Power Sonar; High Power Sonar; Depth Sounders Data provided by Channel Industries, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Channel-Industries-1300-Barium-Titanate-Piezoelectric.php

Physical Properties	Metric	English	Comments
Density	>= 5.55 g/cc	>= 0.201 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	21.0 MPa	3050 psi	Dynamic tensile strength
	52.0 MPa	7540 psi	Static

Electrical Properties	Metric	English	Comments
Curie Temperature	>= 115 °C	>= 239 °F	
Dielectric Constant	1350	1350	Free dielectric constant K_{T3}
	1450	1450	K_{T1}
Dissipation Factor	0.0080	0.0080	Low Field
Piezoelectric Longitudinal Coupling Factor, k_{33}	0.45	0.45	
Piezoelectric Transverse Voltage Coefficient, d_{31} , 10 ⁻¹² m/V	-56.0	-56.0	
Piezoelectric Shear Charge Coefficient, d_{15} , 10 ⁻¹² m/V	245	245	
Piezoelectric Longitudinal Voltage Coefficient, g_{33} , 10 ⁻³ V-m/N	12.2	12.2	
Piezoelectric Planar Coupling Factor, k_p	-0.300	-0.300	
Piezoelectric Mechanical Q	600	600	
Piezoelectric Shear Coupling Factor, k_{15}	0.45	0.45	
Piezoelectric Longitudinal Charge Coefficient, d_{33} , 10 ⁻¹² m/V	145	145	

Electrical Properties	Metric	English	Comments
Piezoelectric Shear Voltage Coefficient, g_{15} , 10^{-3} V-m/N	19.1	19.1	
Piezoelectric Transverse Coupling Factor, k_{31}	-0.180	-0.180	

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