

Products A-Z » Test & measurements » Interactive Guide to Strain Measurement Technology » Tech Notes » TN-505

 Product Support

Contact information for:

Distributors
Sales Representatives
Sales Offices

Test Profile

High Elongation (Post-Yield)

Operating Temperature Range

Selection guidelines for temperatures in the range of:

-50° to +150° F (-45° to +65° C)

Test Duration	<10 hrs	>10 ³ hrs	>10 ³ hrs
Accuracy*	Moderate	Moderate	Moderate
Cyclic Endurance	1 ~ at ± 50 000 microstrain	1 ~ at ± 100 000 microstrain	1 ~ at ± 200 000 microstrain
Gage Series	CEA, EA	EP	EP
M-Bond Adhesive	AE-10	AE-15	A-12

0° to +500° F (-20° to +260° C)

Test Duration	>10 ² hrs
Accuracy*	Moderate
Cyclic Endurance	>1 ~ at ± 15 000 microstrain
Gage Series	SA, SK, WA, WK
M-Bond Adhesive	610

-452° to +500° F (-269° to +260° C)

Test Duration	>10 ³ hrs
Accuracy*	Moderate
Cyclic Endurance	1 ~ at ± 10 000 microstrain
Gage Series	SK, WK
M-Bond Adhesive	600, 610

* **Please Note** : It is inappropriate to quantify "accuracy" as used in this table without consideration of various aspects of the actual test program and the instrumentation used. In general, "moderate" for stress analysis purposes is in the 2 to 5% range, "high" in the 1 to 3% range, and "very high" 1% or better.



Reference Table