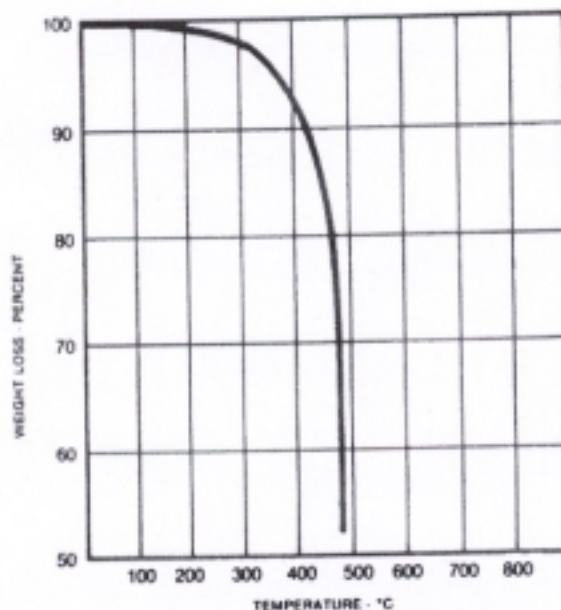


TYPICAL PROPERTIES

(To be used as a guideline only)

NUMBER OF COMPONENTS	Two
MIXING RATIO	PARTS BY WEIGHT
Part "A"	1
Part "B" (hardener)	1
Part "B" (hardener) container should be tightly closed when not in use.	
Maximum recommended mixed quantity should not exceed	25 gms.
CURING SCHEDULE (Bond line temperature)	
150°C	60 minutes
PHYSICAL PROPERTIES	
Color	Amber
Consistency	Smooth flowing liquid
Viscosity (mixed)	
@ 100 rpm/23°C	150 - 300 cPs
Hardness, Shore D	92
Glass Transition Temp. (T _g)	
cured @ 150°C/1 hour	> 100°C
Coefficient of Thermal Expansion	
Below T _g	63 x 10 ⁻⁶ in./in./°C
Above T _g	125 x 10 ⁻⁶ in./in./°C
Moisture absorption %; 250 hrs. @ 32°C	0.04
Salt Spray 100 days @ 80°F	Pass MIL Std. 883
Heat Distortion	175°C
Lap Shear Strength	2,700 psi
Compressive Strength	23,000 psi
Tensile Strength	9,700 psi
Modulus of Elasticity	1.0 x 10 ⁶ psi
Shrinkage (1/8" diam. bar) in/in	0.003
Operating Temperature Range ..	-55°C to +160°C
Thermal Shock	-60°C to +125°C
ELECTRICAL PROPERTIES	
Dielectric Strength	570 volts/mil
Dielectric Constant 100KC @ 32°C	5.1
Volume Resistivity ohm-cm @ 35°C	1 x 10 ¹⁶
Dissipation Factor 100KC @ 32°C	0.01
HERMETICITY	
100 hrs.; 90% RH; 90°F	1.0 x 10 ⁻⁶ cc/sec. (tracer flow)
RADIATION RESISTANCE	
Stable to Gamma Ray dosage in excess of 10 ¹⁶ ergs/gram	
BIO-CHEMICAL	
Fungus (degradation)	Inert
Bacteria (degradation)	Inert
Rodent (animal attack)	Inert
CHEMICAL RESISTANCE	
Water, salt, hydraulic fluids, motor oil, alcohol, 10% nitric acid, 10% sulfuric acid, 10% ammonia solution and most solvents.	
POT LIFE	24 hours
SHELF LIFE	1 year
DOES NOT REQUIRE REFRIGERATION	



THERMAL STABILITY AS DETERMINED BY THERMOGRAVIMETRIC ANALYSIS IN AIR AT A SCAN RATE OF 20°C/min.

EPO-TEK 377 is a two component, 100% solids epoxy. Applications include a glass sealant for LCD's and laser windows, and fiber optics potting. EPO-TEK 377 should also be considered as a coating for metals that are subjected to high temperatures. Metals bonded with EPO-TEK 377 have been subjected to temperatures as high as 500°C (for 10 hours) without bond failure.

EPO-TEK 377 is a moderately viscous epoxy with excellent handling characteristics and a long pot life at room temperature. The 100% solids system is characterized by outstanding high temperature properties and excellent solvent, chemical and moisture resistance. Since EPO-TEK 377 does not contain any solvents or thinners there are no outgassing problems. It can be applied by brushing, dipping or commercial dispensing equipment as a 100% solids system.

Polytec GmbH

Polymer Technologien Polytec-Platz 1-7 76337 Waldbronn Germany

Tel. ++49 (0) 7243 604-175 Fax ++49 (0) 7243 604-382

 E-mail: pt@polytec.de <http://www.polytec.de>

Zur Beachtung:

Vorstehende Angaben können nur allgemeine Hinweise sein. Bei den aufgeführten Eigenschaften und Leistungsmerkmalen handelt es sich um circa-Werte, diese sind nicht Teil der Produktspezifikation. Wegen der außerhalb unseres Einflusses liegenden Verarbeitungs- und Anwendungsbedingungen und der Vielzahl unterschiedlicher Materialien empfehlen wir, in jedem Fall zunächst ausreichende Eigenversuche durchzuführen. Eine Haftung für konkrete Anwendungsergebnisse kann daher aus den Angaben und Hinweisen in diesem Merkblatt nicht abgeleitet werden.

Mit Erscheinen dieser Ausgabe verlieren alle vorhergehenden technischen Merkblätter ihre Gültigkeit.
Sicherheitsrelevante Daten können dem Sicherheitsdatenblatt entnommen werden.

Änderungen vorbehalten / Stand : 29.07.2004

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