



General Purpose Two-component Silicone Potting Rubber

TE2083**DESCRIPTION**

TE2083 silicone rubber compound is a two-component room temperature vulcanizing Yantai E.S.T Silicone Tech rubber compound for potting and encapsulation, particularly where flammability is of concern.

This product is supplied with curing agent in matched kits which are designed for use at a convenient 1:1 ratio by weight or volume. TE2083 silicone rubber compound is black in color and has an easily pourable viscosity of about 1500 cps.

KEY FEATURES

- ▶ Convenient 1:1 mix ratio by weight or volume for use in automatic dispensing or hand operations
- ▶ Chemical composition contains no solvents for ease of use on production lines
- ▶ Low viscosity allows easy flow in and around complex parts
- ▶ Cure rate can be accelerated by heat
- ▶ Will cure in deep sections or enclosed assemblies without exotherm and with low shrinkage
- ▶ Reversion resistant and hydrolytically stable

APPLICATIONS

TE2083 silicone rubber compound is recommended for evaluation in applications such as a production line potting compound to provide protection of electronic components and assemblies against thermal shock, vibration, moisture, ozone, dust, chemicals, and other environmental hazards. Other applications include encapsulation of high voltage transformers, voltage regulators, power converters and complete power supplies, LED display module.

TYPICAL PROPERTY DATA

(JIS K 6249)

BOFORE CURING	Part A	Part B
Appearance	Flowing paste	Flowing paste
Colours	Black	White
Cure Type	Additional	Additional
Specific Gravity at 25°C (g/ml) (standards ISO R 1183,DIN 53479,NMRPS 703)	1.50	1.67
Viscosity (cs)	3987	1514

CURING	
Tack-free Time (min) (23°C, 50%)	60
Cured thickness after 24h (mm) (23°C, 50%)	10
Viscosity after mixing (cs)	3312



TE-2083

CURED PRODUCT	
Specific Gravity at 25°C (g/ml) (standards ISO2781,ASTM D297,BS 903 Part A1)	1.52
Shore A hardness (Standards ISO R868,DIN 53505,ASTM D 2240, BS 903 Part A7,NFT 46003,NMRPS 471)	52
Dielectric strength (KV/mm) (standards NF C 26225,ASTM D 419,IEC 243)	24
Dielectric constant at 1 MHZ (standards NF C 26230,ASTM D 150,IEC 250)	3.6
Power factor at 1 KHZ (standards NF C 26250,ASTM D 150,IEC 250)	2×10^{-3}
Volume resistivity,Ω.cm (standards NF C 26215,ASTM D 257,IEC 93)	1×10^{15}
Thermal conductivity (W/mk)	0.6164

* Testing is performed in accordance with current EST material test methods, laboratory

* Typical property data values should not be use as specifications

SPECIFICATION

Typical product data values should not be used as specification. Assistance and specification are available by contacting YanTai E.S.T. silicone technology co.,LTD

HANDLING AND SAFETY

When solvent are used, proper safety precautions must be considered toxic and must be used only in well ventilated areas.

USABLE LIFE AND STORAGE

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 12 months from the date of manufacture.



CAUTION!	HANDLING PRECAUTIONS	FIRST AID MEASURES
<p>1.FOR INDUSTRIAL USE ONLY</p> <p>2.This product is neither terted nor representde as suitable for medical or pharmaceutical uses.</p> <p>3.Do not use this product for other than its intended use,or user shall bear responsibility for any problems.</p>	<p>1.Wear suitable protective goggles, respirator and gloves.</p> <p>2.Use only where an adequate ventilation system is available to sxhaust poisonous gases.</p> <p>3.After handling,wash face and hands very thoroughly.</p> <p>4.Keep out of reach of children.</p> <p>5.Store in a cool,dark and dry place.</p>	<p>1.Inhalation:Remove to fresh air and get medical attention immediatly.</p> <p>2.Eye contact:Immediately flush eyes with plenty of water for at lest 15minutes.Get medical attention immediatly.</p> <p>3.Skin contact:Immediately flush skin with plenty of soop and water for at least15minutes.Get medical attention immediatly.</p> <p>4.Ingestion:Induce vomiting and get medical attention immediatly.</p> <p>5.See material safety data sheet.</p>