

Technical data sheet

PERMACOL 2560

DESCRIPTION

The PERMACOL 2560 is a 2-component alumina filled epoxy potting resin. This product exhibits good thermal conductivity combined with a high chemical and heat resistance. The low coefficient of thermal expansion (CTE) of this product results in high bond strength of dissimilar substrates and materials with a low CTE. Can be used as an alternative for Stycast 2850FT.

Technical details	
Chemistry	Epoxy
Colour	Dark grey
Mixing ratio	100 : 6,2 (w/w)
Viscosity A	140 Pa.s
Viscosity B	0,02 Pa.s
Mixed	10,5 Pa.s
Density A	2,46 g/cm ³
Density B	0,92 g/cm ³
Mixed	2,22 g/cm ³
Working time	40 minutes
Curing time	8-16 hours at 80°C 2-4 hours at 100 °C 30-60 hours at 120°C
Thermal conductivity	1,2 W/m.K
Hardness	95 shore D
Glass transition (Tg)	135°C
CTE below Tg	28 ppm/°C
CTE above Tg	115 ppm/°C
Service temperature	-40°C to 150°C
Peak temperature	180°C

USAGE INSTRUCTIONS

Make sure the substrates are clean and dust, water, grease, salt and oil free. Weigh and mix the two components in the correct mixing ratio until it is homogenous. Mixing under vacuum can prevent bubbles. Pour the casting.

For optimal product properties we recommend a post cure of two to four hours at the highest expected use temperature.

Curing without post-cure results in a brittle product with weaker adhesion and chemical resistance than optimal.

BENEFITS

- Thermally conductive
- Excellent chemical resistance
- Good heat resistance
- High Tg and low CTE
- RoHS und REACH compatible

CLEANING

Uncured adhesive can be removed and cleaned using solvents like Ethanol, Acetone, Isopropanol (IPA) or MEK. Cured adhesives must be removed mechanically.

STORAGE

Store in its original packaging below 30°C. Make sure the adhesive is warmed up to room temperature before opening the package. See packaging for the expiration date. Shelf life: 12 months.

SAFETY

Use protective gloves to avoid direct contact with the skin. Check the Material Safety Data Sheet for specific safety information.

PACKAGING

The PERMACOL 2560 is available in different kinds of cans and bottles.

Contact our technical specialists to discuss your application and find the best solution. They can also adjust our products to specifications that suit your application.

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