



RAPID chill TC1.1

HIGH THERMAL CONDUCTIVE RESIN FOR EFFICIENT HEAT REMOVAL

KEY FEATURES

- High thermal conductivity
- Excellent adhesion
- Good workability
- Small volume shrinkage
- Low exothermic reaction and glass transition temperature
- Long storage stability

TE Connectivity's (TE) RAPID chill TC1.1 resin is a modern and easy to process 2-component casting resin which is designed for the use on thermal stressed parts. The high strength in combination with the excellent adhesion is perfectly suited to protect the components from physical stress such as shock or vibration. It has also excellent electrical characteristics and is hydrophobic.

RAPID chill TC1.1 resin is based on a system of modified polyols and functional fillers. The formulation was a continuous development to retain a easy processing and to minimize the sedimentation of fillers. The polyols used cause a high and constant degree of elasticity in the whole temperature range from -40°C to 135°C.

The preparation of RAPID chill TC1.1 resin takes place immediately before casting. The two components are mixed and then the crosslinking process starts. The low exothermic reaction heat is rapidly removed and thus minimizes the occurrence of cavities and cracks.

RAPID chill TC1.1 has a 40-times higher thermal conductivity than air. The low exothermic profile combined with the very low volume shrinkage while hardening leads to nearly no tensions in the casting resin, this makes it perfectly suitable for sensitive components. The moderate mixing viscosity ensures good wetting of all parts, even small components.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.



TECHNICAL DATA	
Thermal conductivity	1,1 W/(m·K)
Shore Hardness D	40
Density of hardened resin	1,99 g/cm ³
Mixing viscosity at start 20°C	8 Pa·s
Maximum reaction temperature for 300 ml	< 40°C
Volume shrinkage	< 0,55 %
Glass transition	< -40°C

PRODUCT SELECTION INFORMATION			
Description	Delivery Form	Volume (Liter)	Part Number
RAPID chill TC1.1-H20358	Drum	203,58 L	EJ3479-000
RAPID chill TC1.1-H2262	Drum/Can	22,62 L	EJ3480-000
RAPID chill TC1.1-C498	Can	4,98 L	EJ3481-000

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