

Technical Datasheet

BETATECH™ 270D

Short description

BETATECH™ 270D is a two component thermal interface material based on a polyurethane technology with a thermal conductivity of 3 W/mK.

Characteristic

BETATECH™ 270D is based on aluminum trihydroxide fillers that lead to a thermal conductivity of 3 W/mK accompanied by a low density of 2.1 g/ml. The material can be efficiently applied and the parts can be joined quickly due to a low press-in force. Manual application from cartridges is best performed between 50 – 60 °C. With an automated application equipment the material can be applied from drums or pails between 23 – 60 °C. The material is free of silicones.

Application

All Dupont T&I Adhesives products are primarily developed in co-operation with the automobile manufacturers, according to their needs and their specifications, they are approved for the specific applications as defined by the customer. The use of the product other than approved application have to be released in written form by the Technical Service of DuPont T&I Adhesives.

Unless specified otherwise test are conducted at 23°C/50% relative humidity.

Component A	Value	Unit	Standard
Basis	Polyurethane resin	-	-
Colour	green	-	-
Density	2.1	g/ml	ISO 1183
Component B	Value	Unit	Standard
Basis	Polyurethane hardener	-	-
Colour	white	-	-
Density	2.1	g/ml	ISO 1183
Thermal properties	Value	Unit	Standard
Thermal conductivity	3	W/mK	ASTM D5470-12
Processing	Value	Unit	Standard
Mixing ratio by volume	1:1	-	-
Press-in force @ 1mm/s, 1mm layer thickness	0.1	MPa	-
Processing time	60	minutes	-
Processing temperature	23 – 60	°C	-
Other properties	Value	Unit	Standard
Shelf life	6	month	-
Delivery form			

Drums, Pails, Cartridge Sets (upon request)