

ISO 16525-3:2014-05 (E)

Adhesives - Test methods for isotropic electrically conductive adhesives - Part 3: Determination of heat-transfer properties

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Principle	3
5	Scope of test	3
6	Apparatus	4
7	Cartridge-type specimen	6
7.1	The cartridge-type specimen	6
7.2	Dimensions and tolerances of the cartridge-type specimen	6
7.3	Preparation of the cartridge-type specimen	8
8	Standard rod	9
8.1	Shape of standard rods	9
8.2	Dimensions and tolerance of standard rods	9
8.3	Material and thermal conductivity of standard rods	9
8.4	Surface roughness and flatness of the contact surface of the standard rods and parallelism of the upper/lower faces	10
8.5	Boring thermocouple holes through the standard rods	10
9	Procedure	11
9.1	Assembly of the cartridge-type specimen and the standard rod	11
9.2	Heating or cooling procedure of the cartridge-type specimen and the standard rod	11
9.3	Temperature measurement of the cartridge-type specimen and the standard rods	11
10	Calculation of heat transfer property	11
10.1	Effective thermal conductivity	11
10.2	Thermal resistance	14
10.3	Thermal conductance	15
11	Test report	15
Bibliography		16