

DIN ISO 7148-2:2014-07 (E)

Plain bearings - Testing of the tribological behaviour of bearing materials - Part 2: Testing of polymer-based plain bearing materials (ISO 7148-2:2012)

Contents		Page
National foreword		3
National Annex NA (informative) Bibliography		4
1	Scope	5
2	Normative references	5
3	Symbols, units and abbreviated terms	5
4	Special features for the tribological testing of polymer-based materials	6
5	Test methods	9
5.1	General	9
5.2	Test method A -- Pin-on-disc	9
5.3	Test method B -- Block (or pin)-on-ring	10
5.4	Test method C -- Plain bearing-on-shaft	11
5.5	Test method D -- Sphere-on-prism	11
5.6	Test method E -- Rotation under thrust load	12
6	Test specimens	13
6.1	Data required	13
6.2	Polymer-based plain bearing materials (pl)	13
6.3	Materials of mating component	13
6.4	Dimensions of test specimens	13
6.5	Preparation of the test specimens	18
7	Test methods and test equipment	19
7.1	General	19
7.2	Test method A -- Pin-on-disc	19
7.3	Test method B -- Block-on-ring	20
7.4	Test method C -- Plain bearing-on-shaft	20
7.5	Test method D -- Sphere-on-prism	20
7.6	Test method E -- Rotation under thrust load	21
8	Lubrication	21
8.1	General	21
8.2	Dry (dr)	22
8.3	Grease (gr)	22
8.4	Oil (oi)	22
8.5	Solid lubricant (so)	22
9	Designation	22
10	Test conditions	22
10.1	Environmental conditions	22
10.2	Mounting of the test specimens	23
10.3	Test variables	23
11	Test procedure	25
11.1	Running-in	25

11.2	Carrying out the tests	25
12	Analysis	25
12.1	General	25
12.2	Test results	26
Annex A (informative) Test report		27
Bibliography		29