

ISO 12493:2023-01 (E)

Rubber, vulcanized or thermoplastic - Determination of stress in tension under non-isothermal conditions

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Apparatus	2
5.1	Test machine	2
5.1.1	General	2
5.1.2	Thermal-stress testing machine	2
5.1.3	Stress relaxometer	3
5.2	Oven	4
5.3	Thickness- and width-measuring devices	4
6	Calibration	4
7	Test piece	4
7.1	Dimensions	4
7.1.1	Method A:	4
7.1.2	Method B:	4
7.2	Number of test pieces	5
7.3	Time lapse between moulding and testing	5
7.4	Conditioning	5
8	Test conditions	5
8.1	Heating rate and temperature interval under investigation	5
8.2	Strain of the sample	5
9	Procedure	6
9.1	Method A	6
9.2	Method B	7
9.2.1	Isothermal test period	7
9.2.2	Non-isothermal test period (TSSR, temperature scanning stress relaxation test)	7
10	Evaluation of the data and expression of results	8
10.1	Method A	8
10.2	Method B	9
11	Precision	13
12	Test report	13
12.1	Test report Method A	13
12.2	Test report Method B	14
Annex A (normative)	Calibration schedule	15
Bibliography		17