

INTERNATIONAL STANDARD

AMENDMENT 1

Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 4: Typical values

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IEC TR 60893-4:2014/AMD1:2017
<https://standards.iteh.ai/catalog/standards/sist/1a6d8e28-76fe-4519-8276-d0eb0e9209c6/iec-tr-60893-4-2014-amd1-2017>



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FOREWORD

This amendment has been prepared by IEC technical committee 15: Solid electrical insulating materials.

The text of this amendment is based on the following documents:

Enquiry draft	Report on voting
15/768/DTR	15/784/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

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3.6 Typical values for industrial rigid laminated sheets based on polyimide resin

Replace, in this subclause, the existing Table 1 with the following new Table 1:

Table 1 – Typical values for SI types
 (Reference: IEC 60893-3-6:2003/AMD1:2009, Table 5)

Property	Test method in IEC 60893-2:2003 Subclause	Unit	Nominal thickness of sheet to which test is applicable mm	Type	
				SI GC 201	SI GC 202
Apparent modulus of elasticity in flexure	5.2	MPa	≥1,5	13 000	13 000
Compressive strength perpendicular to laminations	5.3	MPa	≥5	160	160
Shearing strength parallel to laminations	5.5	MPa	≥5	20	20
Tensile strength	5.6	MPa	≥1,5	70	90
Permittivity at 48 Hz – 62 Hz	6.2	–	≤3	–	6,0
Permittivity at 1 MHz	6.2	–	≤3	–	6,0
Dissipation factor at 48 Hz-62 Hz	6.2	–	≤3	–	0,07
Dissipation factor at 1 MHz	6.2	–	≤3	–	0,07
Comparative tracking index	6.4	–	≥3	450	450
Thermal endurance	7.1	–	≥3	180	180
Density	8.1	g/cm ³	All	1,6-1,9	1,6-1,9

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