BS EN IEC 62788-5-1:2020

BSI Standards Publication

Measurement procedures for materials used in photovoltaic modules

Part 5-1: Edge seals — Suggested test methods for use with edge seal materials

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National foreword

This British Standard is the UK implementation of EN IEC 62788-5-1:2020. It is identical to IEC 62788-5-1:2020.

The UK participation in its preparation was entrusted to Technical Committee GEL/82, Photovoltaic Energy Systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments/corrigenda issued since publication

Date	Text affected

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62788-5-1

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English Version

Measurement procedures for materials used in photovoltaic modules - Part 5-1: Edge seals - Suggested test methods for use with edge seal materials (IEC 62788-5-1:2020)

Procédures de mesure des matériaux utilisés dans les modules photovoltaïques - Partie 5-1: Joints d'étanchéité périphériques - Méthodes d'essai suggérées pour l'utilisation des matériaux de joints d'étanchéité périphériques (IEC 62788-5-1:2020)

Messverfahren für Werkstoffe, die in Photovoltaik-Modulen verwendet werden - Teil 5-1: Kantenversiegelung - Empfohlene Prüfverfahren für die Verwendung mit Kantenversiegelungsmaterialien (IEC 62788-5-1:2020)

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European foreword

The text of document 82/1658/FDIS, future edition 1 of IEC 62788-5-1, prepared by IEC/TC 82 "Solar photovoltaic energy systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62788-5-1:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-01-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-04-23

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61215 (series)	NOTE	Harmonized as EN 61215 (series)
IEC 61730-1:2016	NOTE	Harmonized as EN IEC 61730-1:2018 (not modified)

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	-	-
IEC 60216-5	-	Electrical insulating materials - Thermal endurance properties - Part 5: Determination of relative temperature index (RTI) of an insulating material	-	-
IEC 60243-1	2013	Electric strength of insulating materials - Test methods - Part 1: Tests at power frequencies	EN 60243-1	2013
IEC 60243-2	2013	Electric strength of insulating materials - Test methods - Part 2: Additional requirements for tests using direct voltage	EN 60243-2	2014
IEC 60664-1	-	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	-	-
IEC 60695-11-10	-	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	-
IEC 61730-2	2016	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing	EN IEC 61730-2	2018
			+AC	2018-06
IEC 62788-1-2	-	Measurement procedures for materials used in photovoltaic modules - Part 1-2: Encapsulants - Measurement of volume resistivity of photovoltaic encapsulants and other polymeric materials	EN 62788-1-2	-

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IEC 62788-6-2	-	Measurement procedures for materials used in photovoltaic modules - Part 6-2: General tests - Moisture permeation testing of polymeric materials	-	-
ISO 62	-	Plastics - Determination of water absorption	EN ISO 62	-
ISO 1133-1	-	Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 1: Standard method	EN ISO 1133-1	-
ISO 4587	-	Adhesives - Determination of tensile lap-shear strength of rigid-to-rigid bonded assemblies	-	-
ISO 6721-6	-	Plastics - Determination of dynamic mechanical properties - Part 6: Shear vibration - Non-resonance method	-	-
ISO 11359-2	-	Plastics - Thermomechanical analysis (TMA) - Part 2: Determination of coefficient of linear thermal expansion and glass transition temperature	-	-
ISO 11443	-	Plastics - Determination of the fluidity of plastics using capillary and slit-die rheometers	-	-
ISO 15512	-	Plastics - Determination of water content	EN ISO 15512	-
IEC/TS 61836	-	Solar photovoltaic energy systems - Terms, definitions and symbols	-	-
IEC/TS 62788-2	2017	Measurement procedures for materials used in photovoltaic modules - Part 2: Polymeric materials - Frontsheets and backsheets	-	-
UL 746B	-	Standard for Polymeric Materials - Long Term Property Evaluations	-	-
UL 746C	-	Polymeric materials - Use in electrical equipment evaluations	-	-
ASTM D3835-08	-	Standard test methods determination of properties of polymeric materials by means of a capillary rheometer	-	-
ASTM D6869-03	-	Standard test method for coulometric and volumetric determination of moisture in plastics using the Karl Fischer reaction (the reaction of iodine with water)	-	-
ASTM D7191-10	-	Standard test method for determination of moisture in plastics by relative humidity sensor	-	-

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MEASUREMENT PROCEDURES FOR MATERIALS USED IN PHOTOVOLTAIC MODULES –

Part 5-1: Edge seals – Suggested test methods for use with edge seal materials

FOREWORD

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International Standard IEC 62788-5-1 has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
82/1658/FDIS	82/1689/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62788 series, published under the general title *Measurement procedures for materials used in photovoltaic modules*, can be found on the IEC website.

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