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ICS:

Descriptors:

ENGLISH VERSION

Aerospace series
Heat and crazing resistant cast acrylic, crosslinked, and low moisture absorption
Properties

Série aérospatiale
Acryliques résistant à la chaleur et au fendillement, coulés et réticulés, avec faible absorption d'humidité
Caractéristiques

Luft- und Raumfahrt
Wärmeform- und Spannungsrissbeständiges Acrylglas, gegossen und vernetzt, niedrige Wasseraufnahme
Eigenschaften

This "Aerospace Series" Prestandard has been drawn up under the responsibility of AECMA-STAN (The European Association of Aerospace Industries - Standardization). It is published on green paper for the needs of the European Aerospace Industry. It has been technically approved by the experts of the concerned Domain following member comments.

Subsequent to the publication of this Prestandard, the technical content shall not be changed to an extent that interchangeability is affected, physically or functionally, without re-identification of the standard.

After examination and review by users and formal agreement of AECMA-STAN it will be submitted as a draft European Standard to CEN (European Committee for Standardization) for formal vote.

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2001-08-31		**Mr Pays**

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1 Scope

This standard specifies the properties of heat and crazing resistant cast, crosslinked, low moisture absorption acrylic (PMMA).

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 62	Plastics – Determination of water absorption
ISO 75-2	Plastics – Determination of temperature of deflection under load – Part 2: Plastics and ebonite
ISO 179	Plastics – Determination of Charpy impact strength
ISO 306	Plastics – Thermoplastic materials – Determination of Vicat softening temperature
ISO 489	Plastics – Determination of the refractive index
ISO 527-2	Plastics – Determination of tensile properties – Part 2: Test conditions for moulding and extrusion plastics
ISO 554	Standard atmospheres for conditioning and/or testing – Specifications
ISO 1183 (all parts)	Plastics – Methods for determining the density of non-cellular plastics
ISO 2818	Plastics – Preparation of test specimens by machining
EN 2155-4	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 4: Determination of ultraviolet light transmission over the wavelength range 280 nm to 360 nm [1)]
EN 2155-5	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 5: Determination of visible light transmission
EN 2155-6	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 6: Determination of optical defects [1)]
EN 2155-7	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 7: Determination of optical deviation
EN 2155-8	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 8: Determination of optical distortion
EN 2155-9	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 9: Determination of haze
EN 2155-12	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 12: Determination of linear thermal expansion
EN 2155-19	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 19: Determination of craze resistance
EN 2155-20	Aerospace series – Test methods for transparent materials for aircraft glazing – Part 20: Determination of retention of strength after crazing for as-cast acrylics [1)]
EN 3844-2	Aerospace series – Flammability of non-metallic materials – Part 2: Small burner test, horizontal determination of the horizontal flame propagation [1)]
EN 4243	Aerospace series – Cast acrylic sheets – Technical Specification [2)]
EN 4367	Aerospace series – Cast acrylic sheets – Dimensions [2)]
ASTM-D 1925	Standard Test Method for Yellowness Index for Plastics (Discontinued 1995, no replacement [3)]

1) Published as AECMA Prestandard at the date of publication of this standard
2) In preparation at the date of publication of this standard
3) Published by: American Society for testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103, USA