Schedule of Accreditation

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Smithers MSE Limited

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Physical Tests	
PAPER and BOARD	Air Permeance	BS ISO 5636-3:2013 (Bendtsen Method) BS ISO 5636-5:2013 (Gurley Method)
	Brightness / Reflectance	BS ISO 2470-1:2016 (C/2° indoor daylight conditions) BS ISO 2470-2:2008 (D65/10° outdoor daylight)
	Burst Strength	BS EN ISO 2758:2014 BS EN ISO 2759:2014
	Coefficient of Friction	ASTM D4917-07
	Colour	BS ISO 5631-1:2022 (C/2° indoor daylight conditions) BS ISO 5631-2:2022 (D65/10° outdoor daylight)
	Compressive strength (short span)	BS ISO 9895:2008 TAPPI T826 pm-92
	Edge Crush	BS EN ISO 3037:2022
	Flat Crush	BS EN ISO 3035:2011
	Grammage	BS EN ISO 536:2020
	Grammage of Components	BS ISO 3039:2010
	Moisture Content	BS EN ISO 287:2017
	Opacity	BS ISO 2471:2008

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Physical Tests (cont'd)	
PAPER and BOARD (cont'd)	Ring Crush	TAPPI T818 om-87 TAPPI T822 om-93
	Roughness - Bendtsen	BS ISO 8791-2:2013
	Stiffness (Static)	BS ISO 2493-1:2010 BS ISO 2493-2:2020 TAPPI T451 cm-84
	Tear Strength (Internal)	BS EN ISO 1974:2012
	Tensile Strength and Stretch, and Tensile Energy Absorption (TEA)	ASTM D828-22 BS EN ISO 1924-2:2008 ISO 1924-2:2008
	Thickness and Bulk	BS EN ISO 534:2011
	Water Absorption (Cobb method)	BS EN ISO 535:2023
	Wet Strength	BS 2922:Part 1:1985(1995) BS ISO 3781:2011 ISO 3689:1983
TISSUE	Whiteness (CIE, D65 Outdoor light)	BS ISO 11475:2017
	Thickness	BS EN ISO 12625-3:2014
	Tensile strength, stretch and TEA	BS EN ISO 12625-4:2022
	Tensile strength wet (Finch Method)	BS EN ISO 12625-5:2016
	Grammage	BS EN ISO 12625-6:2016
	Water Absorbency (time & capacity)	BS EN ISO 12625-8:2010
FILMS & LAMINATES, and BOTTLES & CONTAINERS	Moisture Vapour Transmission Rates	ASTM F1249-20
	Oxygen Transmission Rates	ASTM D3985-17 ASTM F1927-20 ASTM F1307-20
FLEXIBLE SHEET MATERIAL USED FOR PACKAGING	Water Vapour Transmission Rate	BS 3177:1959 (1995)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Physical Tests (cont'd)	
CONTAINERS & PACKAGINGS	Burst/Seal (via air inflation)	ASTM F1140-13
	Compression Resistance	Documented In-House Method (67b Issue No 1) based on BS EN 22872:1993
PLASTIC FILMS & SHEETING	Coefficient of Friction	EN ISO 8295:2004 ASTM D1894-14
	Density	BS EN ISO 1183-1:2019 (Method A) ASTM D792-20
	Dimension (Length/Width)	BS 2782:Part 6:Method 632A:1993 ISO 4592:1992
	Falling Dart Impact Resistance	BS 2782:Part 3:Method 352E:1996 (Method A) ASTM D1709-16 (ae1) BS EN ISO 7765-1:2004
	Gravimetric thickness	BS 2782-6:Method 631A:1993 ISO 4591:1992
	Puncture resistance	ASTM F1306-21
	Tear Resistance	BS 2782:Part 3:Method 360A:1991 (1996) BS EN ISO 6383-2:2004
	Thickness by Mechanical Scanning	BS 2782:Part 6:Method 630A:1994 ISO 4593:1993
	Tensile Strength, Elongation and Elastic Modulus (Sheet)	BS 2782:Part 3:Method 320A:1976 (1996)
	Tensile Strength, Elongation and Elastic Modulus (Films)	ASTM D882-18 BS EN ISO 527-1:2019 (General Principles) BS EN ISO 527-3:2018 BS 2782-3:1977 Methods 326A, 326B, and 326C

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Physical Tests (cont'd)	
PACKAGING AND PACKAGING SYSTEMS	Seal Strength Tests of Flexible Barrier Materials	ASTM F88/F88M-23 ASTM F88/F88M-21
	Seal Integrity (porous materials)	ASTM F1929-23 (Method A)
	Seal Integrity (non-porous materials)	ASTM F3039-23
	Seal Strength for peelable lids (45° method)	ASTM F2824-10 (2015)
	Pack integrity (external pressure bubble emission test)	ASTM D3078-02 (2013) Using an automated vacuum system.
	Pack Integrity (internal pressure bubble emissions test)	ASTM F2096-11
	Pack Integrity (leak test)	Documented in-house gas detection method (WI182, Revision 5).
	Container Closure Seal Integrity	BS EN ISO 8871-5:2016 (Annex D) BS EN ISO 8871-5:2014 (Annex D) ISO 8871-5:2005
	Dye solution tightness	BS ISO 11040-4:2015 (Annex H) ISO 11040-4:2015(E)
	General techniques of Ultraviolet-visible quantitative analysis	ASTM E169-16

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Physical Tests (cont'd)	
PACKAGING AND PACKAGING MATERIALS FOR TERMINALLY STERILIZED MEDICAL DEVICES	Requirements for materials, sterile barrier systems, and packaging systems	BS EN ISO 11607-1:2020+A11 2022 Using test specifications listed elsewhere in this Schedule, as appropriate
	General Requirements and Test Methods	BS EN 868:Part 1:Annex C1, C3, Annex D (BS 6256), Annex F
	Sterilization wrap - Requirements and Test Methods	BS EN 868:Part 2:2017: paras 4.2.1.1-7, 4.2.2.1, 4.2.2.2, 4.2.2.3-4, 4.2.2.3.6-7
	Paper used for paper bags, reels and pouches as specified in EN 868-4 and EN 868-5 - Requirements and Test Methods	BS EN 868:Part 3:2017: paras 4.2.2-16
	Paper bags - Requirements and Test Methods	BS EN 868:Part 4:2017: paras 4.2.1.1-3, 4.2.2, 4.2.3.1-3, 4.4.1-3, 4.5..1-4, 4.6.1-2
	Sealable pouches and reels of porous materials and plastic film construction - Requirements and Test Methods	BS EN 868:Part 5:2018 paras 4.2.2.1, 4.2.2.2-5, 4.3.1-4, 4.5.1-3, 4.6.1.1-3, 4.6.2
	Paper for low temperature sterilization processes - Requirements and Test Methods	BS EN 868:Part 6:2017: paras 4.2.2-16
	Adhesive coated paper for low temperature sterilization processes - Requirements and Test Methods	BS EN 868:Part 7:2017: paras 4.3.2-19, 4.4

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PRESSURE-SENSITIVE ADHESIVE COATED LABELS	<u>Performance requirements</u> Immersion resistance to salt water (marine immersion) Adhesion Weathering (resistance to light and saline solution) Laboratory temperature cycling Legibility Print key effectiveness Abrasion resistance Evaluation of label performance on specific substrates	BS 5609:2024 BS 5609:1986 (Superseded) Specification for printed pressure-sensitive, adhesive-coated labels for marine use, including requirements for label base material Section 1 - General Section 2 - Pressure-sensitive, adhesive-coated label base material Section 3 - Printed pressure-sensitive, adhesive-coated labels Appendix A to K
PACKAGING MATERIAL and PACKAGINGS (PAPER, BOARD, PLASTICS, etc.)	<u>Environmental Tests</u> High/Low Temperature Range: - 20 °C to + 60 °C Max chamber size: 2 m x 2 m x 2 m Range: - 20 °C to + 100 °C Max chamber size: 0.66 m x 0.74 m x 0.62 m Range: - 40 °C to + 100 °C Max chamber size: 0.56 m x 0.55 m x 0.53 m Thermal Shock (Auto transfer) Temp Range: - 35 °C to + 80 °C Chamber size: 0.45 m x 0.40 m x 0.60 m Humidity Range: 20 %RH to 95 %RH (Between 20 °C and 55 °C)	BS EN 60068-2-1:2007 BS EN 60068-2-2:2007 ASTM F2825-18 BS EN 60068-2-14:2009 BS EN 60068-2-30:2005 BS EN 60068-2-38:2009 BS EN 60068-2-78:2013 ASTM F2825-18

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Chemical Tests	
PLASTICS MATERIALS IN CONTACT WITH FOODSTUFFS	Overall migration into vegetable oils	BS EN 1186-2:2022 BS EN 1186-13:2002 (Method A)
	Overall migration into evaporable simulants	BS EN 1186-3:2022 BS EN 1186-14:2002 BS EN 1186-15:2002
	pH	BS 2924:Part 1:1983 (1993) BS ISO 6588-1:2021 BS ISO 6588-2:2021
	Chlorides and Sulphates	In-house method based on following withdrawn standards: - BS 2924:Parts 3 and 4:1990 (1995) ISO 9197/1:1989 ISO 9198:1989
WATERS		
Influence of Materials on Water Intended for Human Consumption	Odour and flavour caused by leaching from non-metallic materials	BS 6920:2014 Part 1 BS 6920:2000 (+A1 2014): Part 2.2 BS 6920:2000: Part 3
	Colour caused by leaching from non-metallic materials	BS 6920:2014: Part 1 BS 6920:2000 (+A1 2014): Part 2.3 BS 6920:2000: Part 3
	Turbidity caused by leaching from non-metallic materials	BS 6920:2014: Part 1 BS 6920:2000 (+A1 2014): Part 2.3 BS 6920:2000: Part 3
	Promotion of growth of aquatic micro-organisms by non-metallic materials by measurement of mean dissolved oxygen difference, MDOD	BS 6920:2014: Part 1 BS 6920:2000 (+A1 2014): Part 2.4 BS 6920:2000: Part 3
	Leaching of Substances of Concern to Public Health from non-metallic materials	BS 6920:2014: Part 1 BS 6920:2000 (+A1 2014): Part 2.5 BS 6920:2000: Part 3
	Preparation of Leachates for Analysis for Metals from non-metallic materials – extraction only	BS 6920:2014: Part 1 BS 6920:2000 (+A1 2014): Part 2.6 BS 6920:2000: Part 3

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PACKAGING FOR THE TRANSPORT OF DANGEROUS GOODS <u>UN Chapter 6.1 and Chapter 6.3 (for Division 6.2) Packagings</u> Drums: Metals Wood Fibreboard Plastics Jerricans: Metal Plastics Boxes: Metal Wood Fibreboard Plastics Bags: Plastics Textile Paper Composite packaging: Plastics receptacle Glass, porcelain or stone Receptacle <u>UN Chapter 6.5 Packagings</u> Intermediate Bulk Containers (IBCs) Rigid Flexible	<u>Performance Tests</u> Drop tests (with preconditioning at - 18 °C (plastics), and 23 °C / 50 %RH (fibreboard), as required) Stack tests (at ambient temperature, 40 °C (plastics), and 23 °C/50 %RH (fibreboard) as required) Leakproofness tests Internal pressure (hydraulic) tests Steel rod impact tests Drop tests Stack tests Leakproofness tests Internal pressure (hydraulic tests) Top lift tests Bottom lift tests Tear tests Topple tests Righting tests	<u>For Chapter 6.1</u>: Operational Instructions for UN Test Stations issued by VCA under the authority of DfT <u>For Chapter 6.3 (Division 6.2)</u>: UN Recommendations on the Transport of Dangerous Goods (19th Edition) Operational Instructions for UN Test Stations issued by VCA under the authority of DfT

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PACKAGING FOR THE TRANSPORT OF DANGEROUS GOODS (cont'd)	Performance Tests (cont'd)	
UN Chapter 6.6 Packagings		UN Recommendations on the Transport of Dangerous Goods (19th Edition)
Large Packagings Rigid Flexible	Drop tests Stack tests Top lift tests Bottom lift tests	
	Conditioning for testing	
COMPLETE, FILLED TRANSPORT PACKAGES	Max temp: 60 °C Min temp: - 40 °C Humidity: 90 %rh @ 38 °C Max chamber size: 4.0 m x 2.5 m x 3.0 m (high) Laboratory conditions: 23 °C, 50 % RH	BS EN ISO 2233:2001 ASTM D4332-22 ASTM F2825-18 BS EN ISO 187:2022
	Performance Tests	
COMPLETE, FILLED TRANSPORT PACKAGES	Stacking (static load) Max load: 5500 kg	BS EN 22234:1993 (withdrawn) ISO 2234:1985 (withdrawn)
	Vertical Impact (Drop test) Max height: 4.5 m Max mass: 2250 kg	BS EN 22248:1993 ISO 2248:1985 ASTM D5276-92 ASTM D5276-98(2017) ASTM D5276-19(2023) ASTM D5265-23 ASTM D6344-04(2024) ASTM D5487-16(2022)
	Horizontal Impact (Inclined plane) Max mass: 2000 kg Max impact velocity: 4.7 m/s	ASTM D880-92(2021)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
COMPLETE, FILLED TRANSPORT PACKAGES (cont'd)	<u>Performance Tests</u> (cont'd)	
	Fixed Low Frequency Vibration Frequency range: 1 Hz to 6 Hz Max amplitude: 25.4 mm Max mass: 1000 kg	ISO 2247:1985 (withdrawn) ASTM D999-08 (2023)
	Compression Max force: 22000 kgf	BS EN 22872:1993 ISO 2872:1985 ASTM D642-20
	Rolling Max mass: 500 kg	BS EN 22876:1993 ISO 2876:1985
	Water Immersion Tank size: 0.87 m x 0.87 m x 1.15 m	ISO 4180:1980 (withdrawn)
	Toppling Max mass: 500 kg	BS EN 28768:1993 ISO 8768:1986
	Effects of High Altitude on Packaging Systems by Vacuum Method	ASTM D6653/D6653M-13 (2021)
	Sequential Tests (based on above facilities) Vibration/drop/stack/compression/ etc	<u>ISTA Procedures</u> 1A:2014 1B: 2014 1C: 2014 1D: 2014 1E: 2014 1G: 2014 1H: 2014 2A:2011 2B:2011 2C:2011 3A:2018 3B:2017 3E:2017 3F:2017 3K 2011 3L:2023 4AB:2009 6-AMAZON.COM-SIOC 2018 6-AMAZON.COM OverBoxing 2018 7D:2007

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Performance Tests (cont'd)	
COMPLETE, FILLED TRANSPORT PACKAGES (cont'd)	Sequential Tests (based on above facilities) Vibration/drop/stack/compression/ etc (cont'd)	Documented In-House Method TM 001:Issue 4:January 2023 ASTM D4169-05, -08, -09, -14 ASTM D4169-16, -22, 23, 23e1 ASTM D7386-08 ASTM D7386-12 ASTM D7386-16 ASTM D7386-25 ASTM D6179-20
PACKAGING, PACKAGED ITEMS, GENERAL EQUIPMENT, ELECTRO-MECHANICAL ASSEMBLIES, NON-EXPLOSIVE STORES	Vibration - Sine, random, mixed mode - Ambient temperature - Vertical (Electro Magnetic) Frequency Range: 5 Hz to 2,000 Hz Max Sine Thrust: 21 kN Max Random Thrust:18 kN (Servo-hydraulic) Frequency range: 1.0 Hz to 300 Hz Max peak thrust: 10 kN Max payload: 1.5 tonne Max displacement: 100 mm pk-pk Frequency range: 1.0 Hz to 300 Hz Max peak thrust: 40 kN Max payload: 1.5 tonne Max displacement: 150 mm pk-pk Shock - Classical shock with half sine or trapezoidal pulse shapes - Ambient temperature - Vertical Max item mass: 1000 kg Max footprint: 1 m x 1 m Severity: up to 500 'g' Duration: 3 ms to 20 ms	BS EN 60068-2-6:2008 BS EN 60068-2-64:1995 ASTM D999-08 (2023) ASTM D3580-22 ASTM D4169-05, -08, -09, ASTM D4169-14, -16, -22 ASTM D4728-17 (2022) ISTA Procs 1, 2, 3 Series, 5B, 6 Amazon SIOC & Over boxing, 7A-D BS EN 60068-2-27:1993 (withdrawn) DEF STAN 00-35:1997:Test M3 (withdrawn) MIL-STD 202:1995: Method 213 MIL-STD 810F:2001 Method 516.5 (Procs ii & iii) (withdrawn)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MACHINE READABLE TRAVEL DOCUMENTS Machine Readable Passports	Physical / Mechanical Tests	International Civil Aviation Organization (ICAO), Durability of Machine Readable Passports, Version 3.2 30.8.2006:
	Stress Methods	
	Conditioning stress	Section 5.1
	Thermal cycling	Section 5.2
	Storage temperature	Section 5.3
	Operational temperature	Section 5.4
	Impact stress	Section 5.5
	Book bend stress (back pocket)	Section 5.6
	Dynamic bend stress	Section 5.7
	Torsion stress	Section 5.8
	Sheet turning stress	Section 5.9
	Sheet pull stress	Section 5.10
	Abrasion stress	Section 5.11
	Pen stress	Section 5.12
	Resistance to chemicals - evaluation method	Section 5.13
	Artificial daylight exposure stress	Section 5.14
	X-ray stress (subcontracted)	Section 5.15
	Evaluation Methods	
	Functional PIC evaluation	Section 6.1
	Physical damage evaluation	Section 6.2
	Peel Strength evaluation	Section 6.3
	Colour fastness evaluation	Section 6.4
	Datapage warpage evaluation	Section 6.5
	Book warpage evaluation	Section 6.6

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MACHINE READABLE TRAVEL DOCUMENTS Machine Readable Passports (cont'd)	Physical / Mechanical Tests (cont'd)	International Civil Aviation Organisation (ICAO), Durability of Machine Readable Passports, Version 3.2 30.8.2006
	Test Sequences	
	Sheet binding sequence	Section 7.3
	Storage climate sequence	Section 7.4
	Operational climate sequence	Section 7.5
	Impact sequence	Section 7.6
	Back pocket sequence	Section 7.7
	Torsion fatigue sequence	Section 7.8
	Delamination sequence	Section 7.9
	Bending fatigue sequence	Section 7.10
	Thermal cycling sequence	Section 7.11
	Colour fastness sequence	Section 7.12
	Resistance to chemicals sequence	Section 7.13
	Pen sequence	Section 7.14
	Data-page abrasion sequence	Section 7.15
	X-ray sequence (subcontracted)	Section 7.16
	Stress Methods	BS ISO/IEC 18745-1:2018
	Conditioning stress method	Section 8.1
	Thermal cycling stress method	Section 8.2
	Storage temperature stress method	Section 8.3
	Operational climate stress method	Section 8.4
	Impact stress method	Section 8.5
	Book bend stress method (back pocket)	Section 8.6

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MACHINE READABLE TRAVEL DOCUMENTS Machine Readable Passports (cont'd)	Physical / Mechanical Tests (cont'd)	
	Stress Methods (cont'd)	BS ISO/IEC 18745-1:2018
	Dynamic bend stress method	Section 8.7
	Torsion stress method	Section 8.8
	Sheet turning stress method	Section 8.9
	Sheet pull stress method	Section 8.10
	Abrasion stress method	Section 8.11
	Pen stress method	Section 8.12
	Resistance to chemicals stress method	Section 8.13
	Artficial daylight exposure stress method	Section 8.14
	X-Ray stress method (subcontracted)	Section 8.15
	Evaluation Methods	
	Functional PIC evaluation method	Section 9.1
	Physical damage evaluation method	Section 9.2
	Peel strength evaluation method	Section 9.3
	Colour fastness evaluation method	Section 9.4
	Datapage and cover warpage evaluation method	Section 9.5
	Book warpage evaluation method	Section 9.6

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MACHINE READABLE TRAVEL DOCUMENTS Machine Readable Passports (cont'd)	Physical / Mechanical Tests (cont'd)	
	Test Sequences	BS ISO/IEC 18745-1:2018
	Sheet binding sequence	Section 10.3
	Storage climate sequence	Section 10.4
	Operational climate sequence	Section 10.5
	Impact sequence	Section 10.6
	Back pocket sequence	Section 10.7
	Torsion fatigue sequence	Section 10.8
	Delamination sequence	Section 10.9
	Bending fatigue sequence	Section 10.10
	Thermal cycling sequence	Section 10.11
	Colour fastness sequence	Section 10.12
	Resistance to chemicals sequence	Section 10.13
	Pen sequence	Section 10.14
	Datapage abrasion sequence	Section 10.15
	X-ray sequence (subcontracted)	Section 10.16

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MACHINE READABLE TRAVEL DOCUMENTS Identification (ID) Cards	Physical / Mechanical Tests (cont'd)	
	Test Methods	BS ISO/IEC 24789-2:2011
	Xenon arc light exposure	Section 5.1
	Surface abrasion	Section 5.2
	ICM adhesion	Section 5.4
	Plasticised vinyl storage	Section 5.5
	Wear and soil test	Section 5.6
	Temperature and humidity ageing	Section 5.7
	Temperature shock	Section 5.8
	Temperature and humidity cycling	Section 5.9
	ID-1 card flexure	Section 5.10
	Temperature and humidity ageing followed by peel strength testing	Section 5.11
	Cross-cut test	Section 5.12

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MACHINE READABLE TRAVEL DOCUMENTS ID Cards (cont'd)	Physical / Mechanical Tests (cont'd)	
	Test Methods	BS ISO/IEC 10373-1:2020
	Card warpage	Section 5.1
	Dimensions of cards	Section 5.2
	Peel strength	Section 5.3
	Peel strength including the edge of the card	Section 5.4
	Resistance to chemicals	Section 5.5
	Card dimensional stability with temperature and humidty	Section 5.6
	Adhesion or blocking	Section 5.7
	Bending stiffness	Section 5.8
	Dynamic bending stress	Section 5.9
	Dynamic torsional stress	Section 5.10
	Opacity	Section 5.11
	X-rays (subcontracted)	Section 5.12
	Embossing relief height of characters	Section 5.13
	Resistance to heat	Section 5.14

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MACHINE READABLE TRAVEL DOCUMENTS ID Cards (cont'd)	Physical / Mechanical Tests (cont'd)	
	Test Methods	BS ISO/IEC 10373-1:2006 + A1:2012
	Dimensions of cards	Section 5.2
	Peel strength	Section 5.3
	Resistance to chemicals	Section 5.4
	Card dimensional stability with temperature and humidty	Section 5.5
	Adhesion or blocking	Section 5.6
	Bending stiffness	Section 5.7
	Dynamic bending stress	Section 5.8
	Dynamic torsional stress	Section 5.9
	Opacity	Section 5.10
	X-rays	Section 5.12
	Embossing relief height of characters	Section 5.14
	Resistance to heat	Section 5.15
END		