Schedule of Accreditation

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ITS Testing Services (UK) Limited (Trading as Intertek Wilton)

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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
INORGANIC & ORGANIC CHEMICALS, POLYMERS, COMPOSITES AND PROCESS RELATED MATERIALS Under flexible scope of accreditation	<u>Chemical and Physical Tests</u> Determinands limited to those already included in this schedule for the relevant analytical techniques	Analysis through the appropriate application of the Documented In-House Methods following the implementation of Flexible Scope procedure for extraction MSG-LAB-SOP-CHEM-126 and measurement by MSG-LAB-SOP-IA-6 using the following techniques: ICP-OES ICP-MS IC Migration Gravimetry Extraction techniques covered are: direct solvent extraction, filtration, soxhlet extraction and liquid/liquid extraction – or combinations of the above techniques

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	<u>Chemical Tests by Inorganic Analysis</u>	
Materials limited to those already included in this schedule for the relevant analytical techniques	Introduction of new determinands Under flexible scope	Inorganic Analysis through the appropriate application of the Documented In-House Methods following the implementation of Flexible Scope Procedure MSG-LAB-SOP-IA-6 using the following techniques: ICP-OES ICP-MS IC
INORGANIC & ORGANIC PRODUCTS, POLYMERS, METALS, POWDERS, COMPOSITES AND PROCESS RELATED MATERIALS	Semi-Quantitative Elemental analysis of Li, Be, B, Na, Mg, Al, P, K, Ca, Sc, Ti, V, Cr, Fe, Mn, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Rb, Sr, Y, Zr, Nb, Mo, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, Cs, Ba, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg, Tl, Pb, Bi, Th & U	Inductively Coupled Plasma Mass Spectrometry (ICP-MS) MSG-LAB-SOP-ICP-51
	Quantitative elemental analysis of Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hg, Hf, Ho, In, Ir, K, La, Li, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pd, Pt, Rb, Re, Ru, Rh, Sb, Sc, Se, Si, Sm, Sn, Sr, Ta, Te, Th Ti, Tl, U, V, W, Y, Yb, Zn, Zr	Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) MSG-LAB-SOP-ICP-15, MSG-LAB-SOP-ICP-52, MSG-LAB-SOP-ICP-55, SOP-IA-5 or Inductively Coupled Plasma Mass Spectrometry (ICP-MS) MSG-LAB-SOP-ICP-51
	Carbon, Hydrogen, Nitrogen, Sulphur and Chlorine	Thermal Oxidative Combustion MSG-LAB-XRF-020, 050, 100 and 101
	Loss on Ignition	Gravimetric Analysis MSG-LAB-SOP-ICP-50
AQUEOUS SOLUTIONS	pH	MSG-LAB-SOP-XRF-104
	Anions including Fluoride, Chloride, Bromide, Sulphate, Nitrite, Nitrate, Phosphate, Chlorate and Chlorite	Ion Chromatography MSG-Lab-SOP-XRF-103 and 106

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PLASTICS, POLYMERS AND COMPOSITES	Mechanical Tests	Documented In-House Methods Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)
Plastics, polymers and composites	Dynamic Fatigue in Tension (Temperature range -50°C to +250°C)	Documented in-house method MSG-LAB-SAM-MTP-77
Plastics, polymers and composites	Impact – Charpy (Energy 1 to 4J) (Temperature range -50°C to +80°C)	ISO 179-1
Plastics, polymers and composites	Impact – Izod (Energy 1 to 22J) (Temperature range -50°C to +80°C)	ISO 180
Rigid Plastics, Polymers and Ebonite	Heat Distortion Temperature (HDT)	BS EN ISO 75-1 BS EN ISO 75-2 ASTM D648
Plastic, Composites and Polymers	Tensile (Loads: 0.05N to 100 kN) (Temperature range -50°C to +250°C) (Strain to 1000%)	BS EN ISO 527-1 BS EN ISO 527-2 BS EN ISO 527-3 BS EN ISO 527-4 BS EN ISO 527-5 ASTM D638
Plastics, polymers and composites	Flexure (Loads: 0.05N to 100 kN) (Temperature range -50°C to +250°C)	BS EN ISO 178 ASTM D790
Non-Cellular Plastics and elastomers	Density	ISO 1183-1 Method A ASTM D792
Rigid Plastics, Polymers and composites	Compression (Loads: 0.05N to 100kN) (Temperature range -50°C to + 250°C)	ISO 604 ASTM D695
Thermoplastics	Vicat Softening Point	BS EN ISO 306 ASTM D1525

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Mechanical Tests	Documented In-House Methods Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)
Adhesive	Determination of Lap Shear Strength (Ambient Temperature)	BS ISO 4587
Adhesive, Sealant, Polymer, Liquid, Grease, Gel and Cream	Complex Shear Viscosity, Shear Storage Modulus, Shear Loss Modulus, Loss Factor (Temperature range Ambient to +200°C)	Documented in-house method MSG-LAB-SOPMTP-84 ISO 3219-1, ISO 3219-2, ISO 6721-10
Polymers, Foams, Adhesives, Composites and Sealents	Coefficient of linear thermal expansion / glass transition temperature (Temperature range -60℃ to +400℃)	ISO 11359-1 ISO11359-2 ASTM E831

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ORGANIC CHEMICALS, POLYMERS, COMPOSITES, MONOMERS, SURFACTANTS, FORMULATIONS AND PROCESS RELATED MATERIALS	Chemical Tests by Nuclear Magnetic Resonance	Documented in-house methods
	Quantitative and Qualitative NMR Composition both Molar and weight/weight Chemical Identification Polymer Sequencing Polymers Distribution of isomers Average Mn Product Deformulation Competitive materials analysis	1H, 13C, DEPT. Solvent Suppression 2D NMR typically, COSY HMBC, HMQC HSQC, TOCSY, Multinuclear typically 31P,19F,11B, 29Si MSG-LAB-SOP-NMR—11 Using Spectrometers: JEOL ECS 400 JEOL Luminous 500 Nuclear Magnetic Resonance
	Polyethylene Terephthalate Co monomers	MSG-LAB-SAM-NMR -3, 4 Using Spectrometers: JEOL ECS 400 JEOL Luminous 500 Nuclear Magnetic Resonance
	End Group Analysis	MSG-LAB-SAM-NMR -21 Using Spectrometers: JEOL ECS 400 JEOL Luminous 500 Nuclear Magnetic Resonance
	Additives in Polyesters	MSG-LAB-SAM-NMR-255 Using Spectrometers: JEOL ECS 400 JEOL Luminous 500 Nuclear Magnetic Resonance
	Poloxamer Testing	MSG-LAB-SAM-NMR-205 Using Spectrometers: JEOL ECS 400 JEOL Luminous 500 Nuclear Magnetic Resonance

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
INORGANIC & ORGANIC CHEMICALS, POLYMERS, COMPOSITES AND PROCESS RELATED MATERIALS	Physical Tests by Microscopy	Documented In-House Methods
	Light Microscopy imaging and measurement of materials at various magnification	Stereo Light Microscopy MSG-LAB-SOP-MIC-66, 52 Transmission Light Microscopy MSG-LAB-SOP-MIC-67 51 All techniques available ie transmission, reflected, brightfield, darkfield phase, DIC, fluorescent, UV, etc
	SEM imaging and measurement of materials at various magnification	MSG-LAB-SOP-MIC-59 FEI Quanta FEG 250 SEM
	SEM imaging and measurement of materials at various magnification	MSG-LAB-SOP-MIC-62 Hitachi TM4000+Tabletop SEM
	TEM imaging and measurement of materials at various magnification	MSG-LAB-SOP-MIC-33
	Elemental identification and Qualitative Analysis	MSG-LAB-SOP-MIC-58 Bruker Quantax200 EDX system
	Elemental identification and Qualitative Analysis	MSG-LAB-SOP-MIC-63 Oxford AZtecOne EDX system

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
INORGANIC & ORGANIC PRODUCTS, POWDERS, SUSPENSIONS AND EMULSIONS	Physical Tests - Particle Size Distribution by Laser Diffraction	Documented in-house methods
	Quantitative analysis enabling measurement of: Particle Size Distribution Between 0.01 and 3500 μm for Liquid samples; between 0.4 and 3500 μm for dry powders	Laser Diffraction (using Coulter LS13 320XR instrument) MSG-LAB-SOP-MIC—43, -64 and -65 based on BS ISO 13320
INORGANIC & ORGANIC CHEMICALS, POLYMERS, COMPOSITES AND PROCESS RELATED MATERIALS	Physical Tests by Thermal Analysis	Documented In-House Methods
INORGANIC & ORGANIC PRODUCTS, POLYMERS, METALS, POWDERS, COMPOSITES AND PROCESS RELATED MATERIALS	Chemical Tests by Inorganic Analysis	Documented in-house methods
	Semi-quantitative elemental analysis by wavelength dispersive X-ray fluorescence covering elements from sodium (Z=11) to uranium (Z=92)	Documented in-house method MSG-LAB-SOP-XRF-107

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
INORGANIC & ORGANIC CHEMICALS, POLYMERS, COMPOSITES AND PROCESS RELATED MATERIALS	Tests by Vibrational Spectroscopy	Documented In-House Methods
	Measurement of mid-Infrared and Near-Infrared spectra of materials using a variety of spectrometers, accessories and sampling techniques	Preparation of samples for infrared examination: SOP-IR-1 Analysis of materials by FTIR-MIR spectroscopy: SOP-IR-15 or 37, Analysis of materials by single reflection FTIR-ATR spectroscopy: SOP-IR-45. Collection of FTIR spectra using various spectrometers : SOP-IR-61, 63, 66 Analysis of samples by FTIR microscopy (transmission, specular reflectance and □ATR): MSG-LAB-SOP-IR-66 & 43
	Measurement of Raman spectra using a variety of spectrometers, accessories and sampling techniques	Use of the Confocal Raman Microscope MSG-LAB-SOP-IR-60
	Measurement of UV/Vis spectra	UV/vis transmission and/or reflectance using MSG-LAB-SOP-IR-62
ORGANIC CHEMICALS, POLYMERS, COMPOSITES AND PROCESS RELATED MATERIALS	Chemical Tests by Gel Permeation Chromatography	Documented In-House Methods
	Molecular weight distribution Average Mn polydispersity	Gel permeation chromatography with refractive index, ELSD and UV-Vis detection and triple detection array MSG-LAB-SOP-GPC-1 to 5

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
INORGANIC & ORGANIC CHEMICALS, POLYMERS, COMPOSITES AND PROCESS RELATED MATERIALS	<u>Chemical Tests by Chemical Analysis</u> The following overall migration testing to demonstrate compliance with the European Commission Directive 1935/2004/EC “Materials and Articles in Contact with Food” and Commission Regulation No 10/2011. Plastic material in contact with food stuff using techniques such as: total immersion, single sided cell, reverse pouch and pouch using the European Standards EN 1186:2002 and the food simulants distilled water, 3% v/w acetic acid, 20% v/v aqueous ethanol, fat simulants or substitute fat simulants as laid down by the Commission Regulation No 10/2011. Overall migration and specific migration testing according to the EFSA guidelines in support of EFSA notification for a new food contact substance for food contact applications.	European EN 1186-1:2002 Guidelines for European overall migration testing for plastic materials and articles in contact with foodstuffs European EN 1186-2:2022 Overall migration into vegetable oils European EN 1186-3:2022 Overall migration into evaporable solvents European EN 1186-5:2002 Overall migration into aqueous simulants by cell European EN 1186-10:2002 Overall migration into olive oil (modified method where incomplete extraction of olive oil occurs) European EN 1186-13:2002 Overall migration at high temperatures European EN 1186-15:2002 Alternative test methods to migration in fatty food simulants by rapid extraction into iso-octane and 95% ethanol European EN 13130-2:2004 Determination of Terephthalic Acid in food simulants

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
INORGANIC & ORGANIC CHEMICALS, POLYMERS, COMPOSITES AND PROCESS RELATED MATERIALS (continued)	Chemical Tests by Chemical Analysis (continued)	The following methods and specifications are described in the United States Regulations 21 CFR
Acrylic and modified acrylic plastics	Determination of total non-volatile extractives in solvents	177.1010
Components of paper and paperboard	Determination of total extractives and chloroform-soluble extractives	176.170
Fluorocarbon resins	Determination of total extractives in solvents	177.1380
Nylon resins	Maximum extractable fraction in solvents	177.1500
Olefin polymers	Maximum extractable fraction in solvents	177.1520 (MSG-LAB-SAM-CHEM-26)
Perfluorocarbon resins	Total extractives and Fluoride extractives in solvents	177.1550
Polyaryletherketone resins	Determination of total extractives in solvents	177.1556
Poly(aryletherketone) resin	Determination of chloroform-soluble extractives	177.2415 (MSG-LAB-SAM-CHEM-15)
Polyethylene phthalate polymers	Determination of chloroform-soluble extractives	177.1630 (MSG-LAB-SAM-CHEM-21)
Rubber articles intended for repeated use	Determination of total extractives in solvents	177.2600

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ALL MATERIALS PREVIOUSLY LISTED ON THIS SCHEDULE Under flexible scope of accreditation	Chemical Tests by Chemical Analysis	Analysis through the appropriate application of the Documented In-House Methods following the implementation of Flexible Scope procedure for extraction MSG-LAB-SOP-CHEM-126
	Determination of the mass of test material soluble in solvent under specified conditions	Gravimetric analysis
END		