### **Schedule of Accreditation**

issued by

### **United Kingdom Accreditation Service**

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



0067

Accredited to ISO/IEC 17025:2017

#### **Smithers MSE Limited**

Issue No: 059 Issue date: 25 March 2025

Shawbury Contact: Richard Barlow Shrewsbury Tel: +44 (0)1939 250383

Shropshire E-Mail: rbarlow@smithers.com
SY4 4NR Website: www.smithers.com

#### 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
PLASTICS, RUBBER and COMPOSITE MATERIALS	Chemical Analysis  Comparison of Molecular weight distribution by GPC	In-House procedures numbered: RT011.71.01 HTGPC of PEEK RT011.71.05 GPC with THF or Chloroform RT011.71.06 HTGPC of Polyolefins RT011.71.07 GPC with HFIP
	Identification of rubbers by infrared spectroscopy	In house method RT011.48 based on BS ISO 4650:2012
	Determination of solvent extract	In house method RT011.42 based on ISO 1407:2023 (equivalent to BS 7164:Part 3:1992 (withdrawn)
FOOD CONTACT TESTS	Chemical Analysis	
	Overall migration into aqueous simulants	In house method RT011.49 based on BS EN 1186-3:2022 (total immersion)
		In house method RT011.52 based on BS EN 1186-3:2022 (article filling)
	Overall migration into iso-octane and ethanol	In house method RT011.38 based on BS EN 1186-3:2022
	Overall migration (levels of extractables) from elastomeric materials	In house method RT011.27 based on FDA Regulations Chapter 21, Section 177.2600 for Repeat use rubber articles

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PLASTICS, RUBBER and COMPOSITE MATERIALS	Mechanical and Physical Tests	
	Density	BS ISO 2781:2018 BS EN ISO 1183-1:2019:Method A
	Hardness	BS ISO 48-2:2018
	Indentation hardness	BS ISO 48-4:2018 BS EN ISO 868:2003
	Tensile properties (forces up to ± 200 kN)	BS ISO 37:2024 (Dumb-bells only)
	Compressive properties (forces up to ± 200 kN and -40°C to +200°C)	BS ISO 7743:2017 BS EN ISO 604:2003
	Tensile strength, elongation, Poisson's ratio and elastic modulus (forces up to ± 200 kN and -40°C to +200°C)	BS EN ISO 527-1: 2019 BS EN ISO 527-2: 2012 BS EN ISO 527-3: 2018
	Flexural properties	BS EN ISO 178:2019
	Izod impact strength	BS EN ISO 180:2023
	Charpy impact strength	BS EN ISO 179-1:2023
	Falling weight impact resistance	BS 2782:Part 3:Method 352D:1979 (withdrawn)
	Impact brittleness	BS ISO 812:2017
	Stress relaxation	BS ISO 3384-1:2024
	Low temperature crystallization effects ( to -55 °C )	BS ISO 3387:2020 (Vulcanised Samples Only)
	Low temperature stiffness (Static Gehman test)	BS ISO 1432:2021
	Standard atmospheres	BS ISO 23529:2016
	Elmendorf tear test	BS EN ISO 6383-2:2004
	Modulus in shear (Quad Shear)	BS ISO 1827:2022
	Tear strength	BS ISO 34-1:2022

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PLASTICS, RUBBER and COMPOSITE MATERIALS (cont'd)	Mechanical and Physical Tests (cont'd)	
	Compression set	BS ISO 815-1:2019 BS ISO 815-2:2019: Method 1 only
	Rebound resilience (Lupke) temperature range -10°C to 50°C	BS ISO 4662 2017
	Abrasion resistance	BS ISO 4649:2017 (excluding 20 N load & Method B)
ENVIRONMENTAL TESTING	Resistance to ozone cracking (static)	BS ISO 1431-1:2022 Excluding clause 11
	Heat resistance	BS ISO 188:2023
	Salt spray (fog) corrosion	ASTM B117-19 ISO 9227:2017 (Conditioning)
THERMAL PROPERTIES and ANALYSIS	Differential Scanning Calorimetry	
A WALTON	General Principles	BS EN ISO 11357-1:2023
	Glass transition temperature (Tg)	BS EN ISO 11357-2:2020
	Temperature and Enthalpy of melting and crystallization	BS EN ISO 11357-3:2018
CHEMICAL RESISTANCE	Effect of liquids	BS ISO 1817:2024 (Method A & B)
	Fluid Contamination	MIL-STD-810G:CN1 Method 504.1 2008 MIL-STD-810H: Method 504.3 2019 DEF STAN 00-035: Part 3 Iss 5:Chapter 4-04 Test CN4 2017 BS 3G100:Part 2:Section 3:1991 Sub-section 3.12 RTCA/DO-160F:2007 RTCA/DO-160G:2010

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DIMENSIONAL MEASUREMENTS	Thickness	BS 2782:Part 6:Method 630A:1994 ISO 4593:1993	
PRODUCT TESTING			
Elastomeric seals for pipe joints	Physical properties	BS EN 681-1:1996 BS EN 681-2, -3 and -4:2000 BS EN 682:2002	
Cast acrylic sheet for baths and shower trays	Tensile Testing	BS EN 263:2008	
Lay-Flat Fire Hoses of Type 1, Type 2, and Type 3 Construction Semi-Rigid Fire Hoses of Type A and Type B Construction	Hot Surface Resistance Test	BS 6391:2009 Chapter 8.6 and Annex G BS EN 694:2014 Chapter 6.5 and BS EN 15889:2011 Annex H	
END			

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