

# Scope of Accreditation For ABC Group Tech Centre

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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **ABC Group Tech Centre** to perform the following **Tests**:

Accreditation granted through: **November 14, 2019**

## Testing - Mechanical

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Melt Flow	(1 to 130) g/10 min	ISO 1133-1/2 ASTM D1238	Plastics and Rubber	190 °C & 230 °C 21.6 kg & 2.16 kg
Ash Content	(up to 70) %	ISO 3451-1 Method A ASTM D2584; ASTM D5630	Plastics and Rubber	
Density	(0.4 to 1.4) g/cm <sup>3</sup>	ISO 1183-1 Method A ISO 1183-2 ASTM D1505; ASTM D792	Plastics and Rubber	Gradient Column
Specific Gravity	(0.8 to 1.2)	ISO 1183-1 ASTM D792 JIS K 6550 at 6.1.1	Plastics and Rubber	
Tensile Strength	(3 to 90) MPa (4 to 10 000) N	ISO 37; ISO 527-1 ISO 527-2 ASTM D412; ASTM D638 ASTM D618	Plastics and Rubber	(-50 to 100) °C
Tensile Stress	(3 to 90) MPa	ISO 37; ISO 527-1 ISO 527-2 ASTM D412; ASTM D638 ASTM D618	Plastics and Rubber	(-50 to 100) °C
Elongation	(0.1 to 1 000) %	ISO 37; ISO 527-1 ISO 527-2 ASTM D412; ASTM D638 ASTM D618	Plastics and Rubber	(-50 to 100) °C

<b>Technology</b>	<b>Range, when necessary</b>	<b>Methods Used</b>	<b>Product Types</b>	<b>Remarks</b>
Tensile Modulus	(20 to 10 000) MPa	ISO 527-1; ISO 527-2 ASTM D638; ASTM D618	Plastics and Rubber	(-50 to 100) °C
Poisson's Ratio	up to 1	ISO 527-1; ISO 527-2 ASTM D638; ASTM D618	Plastics and Rubber	(-50 to 100) °C
Flexural Modulus	(20 to 7 000) MPa	ISO 178 ASTM D790	Plastics and Rubber	
Hardness	(25 to 90) Shore "A" (30 to 70) Shore "D"	ISO 868 ASTM D2240	Plastics and Rubber	
Compression Set	(1 to 75) % Max	ASTM D395 Method B	Plastics and Rubber	
Tear Strength	(1 to 90) kN/m	ISO 34-1 Method B ASTM D624 Die C Procedure A	Plastics and Rubber	
Heat Aging	(2 to 120) % Retention	ISO 188 - A/B ASTM D573	Plastics and Rubber	Temperature & Time (30 to 175) °C & (1 to 1 200) h Visual degradation
Liquid Aging	% Retention	ISO 1817 ASTM D471	Plastics and Rubber	Temperature (30 to 175) °C & Time
Carbon Content	(0.5 to 50) %	ASTM D4218	Plastics and Rubber	
Color Measurement	CIELAB CIELCH AATCC	ASTM D1729 ASTM D2244	Plastics and Rubber	L=10-30 a = 0.01-1.0 b = 0.01-1.0
Impact Strength Izod	(0.5 to 90) kJ/m <sup>2</sup>	ISO 180 ASTM D256	Plastics and Rubber	Notched & Unnotched
Impact Strength Charpy	(0.5 to 90) kJ/m <sup>2</sup>	ISO 179-2	Plastics and Rubber	Notched & Unnotched
Tensile Impact Strength	(0.5 to 90) kJ/m <sup>2</sup>	ASTM D1822	Plastics and Rubber	Notched & Unnotched
Heat Deflection Temperature	(23 to 280) °C	ISO 75-1 ISO 75-2 ASTM D648	Plastics and Rubber	(0.45 & 1.80) MPa
Vicat Softening Temperature	(23 to 280) °C	ISO 306 ASTM D1525	Plastics and Rubber	Method A & B

**Testing - Thermal**

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Flammability	(up to 100) mm/min	FMVSS 302 ISO 3795 ASTM D5132 GMW3232 HES C 206 HES D 6003 TSM 0500G		

Notes:

- 1) This laboratory does not offer commercial testing service.
- 2) Humidity is controlled at (40 to 60) % RH.
- 3) Test specimen preparation using Injection Molding per ISO 294-1-3 and/or ASTM D4101, or using Compression Molding at (1.5 to -7) mm Flush Molds per ISO 293 and/or ASTM D1928.

Approved by:   
 R. Douglas Leonard  
 Chief Technical Officer

Date: November 9, 2016