

Laboratory	Analytical Technology Lab, SABIC Research & Technology Pvt. Ltd., Plot No. 81 & 85, Village – Chikkadunnasandra, Anekal: Taluk, Off. Sarjapur – Attible State Highway, Bengaluru, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	01.04.2016
Certificate Number	T-2814	Valid Until	31.03.2018
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	PLASTICS, RUBBER AND LEATHER			
1.	Plastic Material and Products	Tensile Properties	ISO 527-2: 2012, ASTM D 638: 2010	Load - Upto 30 kN Speed: Upto 1800 mm/min
		Flexural Properties	ISO 178: 2010/ Amd 2: 2013, ASTM D 790: 2010	Load- Upto 30 kN
		Izod Impact Strength	ISO 180: 2000/ Amd 2: 2013	1 J to 25 J
		Unnotched Cantilever Beam Impact Resistance	ASTM D 4812: 2011	1 J to 11 J
		Izod Pendulum Impact Resistance	ASTM D 256: 2010	1 J to 25 J
		Charpy Impact Properties	ISO 179-1: 2010	1 J to 11 J
		Charpy Impact Resistance of Notched Specimens	ASTM D 6110: 2010	1 J to 11 J
		Tensile-Impact Strength	ISO 8256: 2004	1 J to 15 J
		Puncture Impact Behaviour of Rigid Plastics	ISO 6603-2: 2000	Upto 20 kN
		High Speed Puncture Properties	ASTM 3763: 2015	Upto 20 kN
		Coefficient of Linear Thermal Expansion and Glass Transition Temperature	ISO 11359-2: 1999, ASTM E 831: 2014	10 ⁻⁶ °C to 10 ⁻³ °C
	Temperature of Deflection Under Load (HDT)	ISO 75: 2013, ASTM D 648: 2009	30 °C to 200 °C	

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Plastic Material and Products	Vicat Softening Temperature (VST)	ISO 306: 2013, ASTM D 1525: 2009	30 °C to 200 °C
		Compositional Analysis	ASTM E 1131: 2014, ISO 11358-1: 2014	40 °C to 1000 °C
		Melt Flow Index	ASTM D1238: 2013 ISO 1133: 2011	(0.1 g to 75 g)/10 min
		Properties of Polymeric Materials	ASTM D3835: 2008 ISO 11443: 2014	Share rate: 10 1/s to 40000 1/s, Temp. Upto 500 °C
		Dynamic Mechanical Properties (Melt Rheology1)	ISO 6721-10:1999 ASTM D4440: 2015	Freq :0.01 Hz to 60 Hz Temp: (-) 120 °C to (+) 400 °C
		Dynamic Mechanical Properties (Flex)	ISO 6721-7: 1996, ISO 6721-10 : 2015 ASTM D4400: 2008 ASTM D5279: 2008 ASTMD4065: 2012	Freq: 0.01 Hz to 60 Hz Temp: (-)120 °C to (+)400 °C
		Dynamic Mechanical Properties (Shear)	ISO 6721-5: 1996 ASTM D5023: 2007 ASTMD4065: 2012	Freq 0.01 Hz to 60 Hz Temp: (-)120 °C to (+)400 °C
		Specific Heat Capacity	ASTM E1269: 2011 ISO 11357- 4: 2014	Temp: (-)150 °C to (+)400 °C
		Transition Temperatures and Enthalpy of Fusion and Crystilisation	ASTM D3418: 2015 ISO 11357-2: 2013, ISO 11357-3: 2011	Temp: (-)150 °C to (+)400 °C
	Thermal Conductivity	ASTM D5930: 2009	Temp: 50 °C to (+)400 °C	

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