

SPECIFICATION	SCHEDULE OF TECHNICAL REQUIREMENTS FOR FLEXIBLE POLYURETHANE FOAM FOR SEATS AND BERTHS ALSTOM-LHB DESIGN AC CHAIR CAR COACHES	MDTS074 REV-NIL PAGE 1 OF2 DATED 11.12.2000
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Issue/Rev	Details of Changes	Date

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1. SCOPE

1.1 This schedule of technical requirements is for Flexible moulded polyurethane foam for seats and berths for use in AC coaches of Indian Railways.

2. Technical Requirements:

#	Property	Unit	Specification		Test method
			Seat	Back	
1.	Apparent Density (Core Density)	Kg/M ³	55±3	50±3	ISO 845-1988
2.	IFD@25% @40%	Kg/314cm ² Kg/314cm ²	15-18 21-24	11-14 17-20	ISO 2439-1997
3.	Tensile strength	Kg/cm ²	1.1 Min	1.0 Min	ISO 1798-1997
4.	Tear strength	Kg/cm	0.5 Min	0.5 Min	ISO 8067-1989
5.	Elongation	%	100 Min	100 Min	ISO 1798-1997
6.	Resilience	%	50 Min	50 Min	ISO 8307-1990
7.	Permanent compression set (50%, 70°C, 22 hrs)	%	10 Max	10 Max	ISO 1856-1980
8.	Repeated compression set (1,00,000 cycles, 50%) a) Thickness loss b) Hardness loss	% %	10 Max 25 Max	10 Max 25 Max	JASO B408- 1976
9.	Flammability test Burning rate	mm/min	100 Max	100 Max	ISO 3582-1978 (E)
10.	Humidity ageing test Hardness loss	%	25 Max	25 Max	ISO 2440-1983
11.	Toxicity index		less than 1	Less than 1	NCD 1409

- Alternate specification for test method is IS-7888-1976.

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