



TECHNICAL DATASHEET

AS-1102 / AS-2101

FORMULATION IN POLYOL		SYSTEM DETAILS	
POLYOL AS-1102	100	POLYOL (A)	PREPOLYMER (B)
CROSSLINKER AS-3107 (in %)	15.95	AS-1102	AS-2101

PHYSICAL PARAMETERS			
MELTING TEMPERATURE	°C	80	80
SOLID MATERIAL MELTING TIME	hrs	20-24	20-24
SEMI-SOLID MATERIAL MELTING TIME	hrs	12	12
VISCOSITY AT 45 °C (POLYOL + CROSSLINKER)	cps	2200 ± 200	400 ± 50
SPECIFIC GRAVITY AT WORK TEMPERATURE	g/cm ³	1.17	1.19

REACTION PARAMETERS			
MIXING RATIO	P+C / I	100 / 112	
WORKING TEMPERATURE	°C	42-45	38-42
CREAM TIME	sec.	5-6	
THREAD TIME	sec.	25-27	
DEMOULDING TIME	min.	2-3	
MOULD TEMPERATURE	°C	55-60	
FREE RISE DENSITY	g/cm ³	0.24	

MECHANICAL PROPERTIES OF FOAM SPECIMEN			
SPECIFIC GRAVITY	UNI 10902	g/cm ³	0.38-0.42
HARDENESS	DIN 53505	Shore A	60-65
ELONGATION AT BREAK	UNI EN 12803	%	≥ 250
TENSILE STRENGTH AT BREAK	UNI EN 12803	N/mm	≥ 5
TEAR RESISTANCE	UNI EN 12771	N/mm	≥ 5
TEAR RESISTANCE	ISO 34-1 METHOD C	N/mm	≥ 15
ABRASION RESISTANCE	UNI EN 12770	mm ³	≤ 250
FLEXURAL FATIGUE RESISTANCE (TEST TEMPERATURE = +23 °C)	UNI EN 17707	mm	0 (PASS)
FLEXURAL FATIGUE RESISTANCE (TEST TEMPERATURE = -20 °C)	UNI EN 12770	N/A	

AGEING PROPERTIES OF FOAM (7 DAYS, 70°C, 95% R.H.)			
ELONGATION AT BREAK	UNI EN 12803	%	≥ 150
TENSILE STRENGTH AT BREAK	UNI EN 12803	N/mm	≥ 5
FLEXURAL FATIGUE RESISTANCE (TEST TEMPERATURE = +23 °C)	UNI EN 17707	mm	0 (PASS)

* Specimen Thickness : slab of 6 mm / 12 mm

- The mixing ratio is based on the best proportion. This ratio will be changed with the kind of dye and its adding amount.
- Free rise density may vary with temperature & humidity.
- Demould time may be prolonged with the increase of sole thickness.
- These physical data are acquired by testing a sample of 6mm thick.
- Data listed above are just for reference. The detail data are subject to practice operation. If other request on Physical properties, please contact us.

<http://www.assaIndia.com>
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