



# TECHNICAL DATASHEET

## AS-1101 / AS-2101

FORMULATION IN POLYOL		SYSTEM DETAILS	
POLYOL AS-1101	100	POLYOL (A)	PREPOLYMER (B)
CROSSLINKER AS-3102T (in %)	14.13	AS-1101	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 40°C (POLYOL + CROSSLINKER)	cps	1800 ± 200	400 ± 50
SPECIFIC GRAVITY AT WORK TEMPERATURE	g/cm <sup>3</sup>	1.17	1.19

### REACTION PARAMETERS

MIXING RATIO	P+C / I	100 / 106	
WORKING TEMPERATURE	°C	38-42	38-42
CREAM TIME	sec.	5-6	
THREAD TIME	sec.	25-28	
DEMOULDING TIME	min.	2-3	
MOULD TEMPERATURE	°C	55-60	
FREE RISE DENSITY	g/cm <sup>3</sup>	0.24-0.27	

### MECHANICAL PROPERTIES OF FOAM SPECIMEN

SPECIFIC GRAVITY	UNI 10902	g/cm <sup>3</sup>	0.38-0.42
HARDNESS	DIN 53505	Shore A	55-60
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 <sup>3</sup>	≤ 250
FLEXURAL FATIGUE RESISTANCE (TEST TEMPERATURE = +23 °C)	UNI EN 17707	mm	0
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

\* 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.

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