



Products that this data relates to available in Australia from:

Metro Foam Products

15 Fariola Street SILVERWATER NSW 2128

Phone: 02 9748 8588

Fax: 02 8003 9810

Email: richard@metrofoam.com.au

Web: metrofoam.com.au

ULTRALON E.V.A. COPOLYMER FOAM

EVA30 – 30kg/m³

EVA45 – 45kg/m³

EVA60 – 60kg/m³

PROPERTY	TEST METHOD		UNITS	EVA30	EVA45	EVA60
GRADE DESIGNATION				30 kg	45 kg	60 kg
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	28-33	42-48	55-65
NOMINAL SHEET SIZE (TRIMMED)	TOLERANCE -0 +1%		mm	2000 X 1000	2000 X 1000	2000 X 1000
NOMINAL THICKNESS (SPLIT)	TOLERANCE +/-0.5mm		mm	3-40	3-40	3-36
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	15-20 N/A	20-25 N/A	25-30 N/A
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	450	700	800
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	2.5	4.0	4.5
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	200-250	250-300	250-300
COMPRESSION SET 22 HRS @ 23°C + 24 HRS RECOVERY	JIS K6767-1976 ASTM D 3575-91	25% DEFL. SUFFIX B	%	<5	<5	<5
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	30	45	60
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	0.002	0.002
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.040	0.042	0.043
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+60	-70/+60	-70/+60



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ULTRALON E.V.A. COPOLYMER FOAM

EVA75 – 75kg/m³

EVA90 – 90kg/m³

EVA - Buoyancy

PROPERTY	TEST METHOD		UNITS	EVA75	EVA90	EVAB
GRADE DESIGNATION				75 kg	90 kg	BUOYANCY
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	70-80	85-95	30-35
NOMINAL SHEET SIZE (TRIMMED)	TOLERANCE -0+1%		mm	1900 X 940	1840 X 920	2000 X 1000
NOMINAL THICKNESS (SPLIT)	TOLERANCE +/-0.5mm		mm	3-32	3-30	3-40
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	30-35 14-18	35-40 18-23	15-20 N/A
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	900	1000	400
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	4.5	5.0	2.5
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	250-300	250-300	250-300
COMPRESSION SET 22 HRS @ 23°C + 24 HRS RECOVERY	JIS K6767-1976 ASTM D 3575-91	25% DEFL. SUFFIX B	%	<5	<5	<5
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	N/A	N/A	25-30
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	0.002	0.002
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.044	0.045	0.040
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+60	-70/+60	-70/+60



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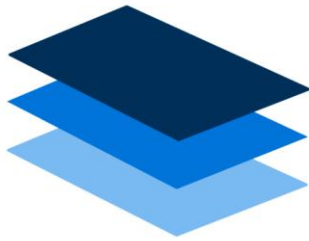
ULTRALON E.V.A. COPOLYMER FOAM

EVA105 – 105kg/m³

EVA120 – 120kg/m³

EVA150 – 150kg/m³

PROPERTY	TEST METHOD		UNITS	EVA105	EVA120	EVA150
GRADE DESIGNATION				105 kg	120 kg	150 kg
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	100-115	115-130	140-155
NOMINAL SHEET SIZE (UNTRIMMED)	TOLERANCE +/-20mm		mm	1300 X 1150	1250 X 1110	1170 X 1040
NOMINAL THICKNESS (BUFFED/SPLIT)	TOLERANCE +/-0.5mm		mm	3-44	3-43	3-40
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	35-45 18-26	40-50 22-31	45-55 26-36
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	1200	1300	1400
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	5.0	6.0	7.0
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	120-170	120-170	120-170
COMPRESSION SET 22 HRS @ 23°C + 24 HRS RECOVERY	JIS K6767-1976 ASTM D 3575-91	25% DEFL. SUFFIX B	%	<5	<5	<5
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	140	160	170
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	0.002	0.002
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.046	0.047	0.050
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+60	-70/+60	-70/+60



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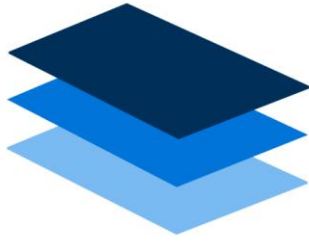
ULTRALON E.V.A. COPOLYMER FOAM

EVA190 – 190kg/m³

EVA220 – 220kg/m³

EVA260 – 260kg/m³

PROPERTY	TEST METHOD		UNITS	EVA190	EVA220	EVA260
GRADE DESIGNATION				190 kg	220 kg	260 kg
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	160-180	180-205	215-260
NOMINAL SHEET SIZE (UNTRIMMED)			mm	1120 X 990 (+/-20mm)	1070 X 950 (+/-20mm)	1000 X 890 (+/-30mm)
NOMINAL THICKNESS (BUFFED/SPLIT)	TOLERANCE +/-0.5mm		mm	3-38	3-36	3-33
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	50-60 31-39	55-65 36-43	60-75 39-53
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	1800	2000	2300
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	10.0	11.0	12.0
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	150-200	150-200	170-220
COMPRESSION SET 22 HRS @ 23°C + 24 HRS RECOVERY	JIS K6767-1976 ASTM D 3575-91	25% DEFL. SUFFIX B	%	<5	<5	<5
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	190	240	400
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	0.002	0.002
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.052	0.055	0.058
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+60	-70/+60	-70/+60



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ULTRALON E.V.A. COPOLYMER FOAM

EVA300 – 300kg/m³

EVA400 – 400kg/m³

PROPERTY	TEST METHOD		UNITS	EVA350	EVA400	
GRADE DESIGNATION				350 kg	400 kg	
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	265-345	400 +	
NOMINAL SHEET SIZE (UNTRIMMED)			mm	920 X 820 (+/-40mm)	800 X 700 (Trimmed)	
NOMINAL THICKNESS (BUFFED/SPLIT)	TOLERANCE +/-0.5mm		mm	3-30	3-20	
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	65-80 43-58	75+ 53+	
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	3000	N/A	
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	18.0	N/A	
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	250-300	N/A	
COMPRESSION SET 22 HRS @ 23°C + 24 HRS RECOVERY	JIS K6767-1976 ASTM D 3575-91	25% DEFL. SUFFIX B	%	<5	N/A	
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	950	N/A	
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	N/A	
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.064	N/A	
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+60	-70/+60	