



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](mailto:richard@metrofoam.com.au)

Web: [metrofoam.com.au](http://metrofoam.com.au)

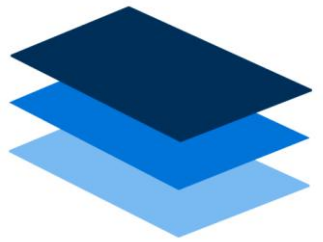
## ULTRALON P.E. COPOLYMER FOAM

**PE30 - 30kg/m<sup>3</sup>**

**PE45 - 45kg/m<sup>3</sup>**

**PE60 - 60kg/m<sup>3</sup>**

PROPERTY	TEST METHOD		UNITS	PE30	PE45	PE60
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	22-27 N/A	27-32 11-16	35-40 18-23
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	350	500	600
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	%	150-200	150-200	150-200
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	41	55	95
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/+70	-70/+70	-70/+70



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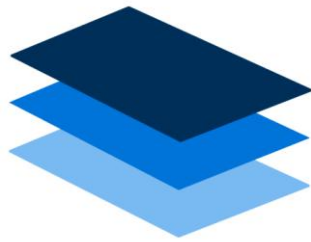
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### ULTRALON P.E. COPOLYMER FOAM

**PE75 - 75kg/m<sup>3</sup>**

**PE90 - 90kg/m<sup>3</sup>**

PROPERTY	TEST METHOD		UNITS	PE75	PE90	
GRADE DESIGNATION				75 kg	90 kg	
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	70-80	85-95	
NOMINAL SHEET SIZE (TRIMMED)	TOLERANCE -0+1%		mm	1900 X 940	1840 X 920	
NOMINAL THICKNESS (SPLIT)	TOLERANCE +/-0.5mm		mm	3-32	3-30	
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	45-50 26-31	50-55 31-36	
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	700	900	
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	5.0	6.0	
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	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	
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	N/A	N/A	
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	0.002	
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.044	0.045	
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+70	-70/+70	



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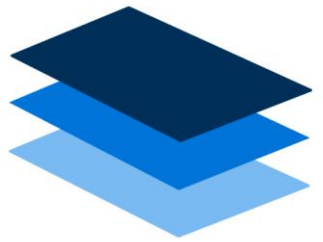
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### ULTRALON P.E. COPOLYMER FOAM

**PE120 - 120kg/m<sup>3</sup>**

**PE140 - 140kg/m<sup>3</sup>**

PROPERTY	TEST METHOD		UNITS	PE120	PE140	
GRADE DESIGNATION				120 kg	140 kg	
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	110-130	130-150	
NOMINAL SHEET SIZE (UNTRIMMED)			mm	1250 X 1110 (+/-20mm)	1170 X 1030 (+/-20mm)	
NOMINAL THICKNESS (BUFFED/SPLIT)	TOLERANCE +/-0.5mm		mm	3-43	3-40	
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	55-65 36-43	60-70 39-48	
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	1400	1500	
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	7.7	9.0	
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	140-190	140-190	
COMPRESSION SET 22 HRS @ 23°C + 24 HRS RECOVERY	JIS K6767-1976 ASTM D 3575-91	25% DEFL. SUFFIX B	%	<5	<5	
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	N/A	N/A	
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	0.002	
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.047	0.050	
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+70	-70/+70	



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### ULTRALON P.E. COPOLYMER FOAM

**PE180 - 180kg/m<sup>3</sup>**

**PE250 - 260kg/m<sup>3</sup>**

PROPERTY	TEST METHOD		UNITS	PE180	PE250	
GRADE DESIGNATION				180 kg	260 kg	
DENSITY	JIS K6767-1976 ASTM D 3575-91	METHOD A	kg/cu.m	170-190	230-290	
NOMINAL SHEET SIZE (UNTRIMMED)			mm	1090 X 970 (+/-20mm)	1000 X 890 (+/-30mm)	
NOMINAL THICKNESS (BUFFED/SPLIT)	TOLERANCE +/-0.5mm		mm	3-37	3-33	
HARDNESS READ AFTER 2 SECONDS	INTERNAL (JIS'C) INTERNAL (SHORE A)	CALCULATION	degrees	65-75 43-53	70-80 48-55	
TENSILE STRENGTH	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	kPa	1800	2000	
TEAR STRENGTH	JIS K6767-1976 ASTM D 624-86	DIE B DIE C	kN/m	10.5	12.0	
ELONGATION @ BREAK	JIS K6767-1976 ASTM D 412-87	METHOD A DIE A	%	140-190	120-170	
COMPRESSION SET 22 HRS @ 23°C + 24 HRS RECOVERY	JIS K6767-1976 ASTM D 3575-91	25% DEFL. SUFFIX B	%	<5	<5	
COMPRESSIVE STRENGTH (25%)	ASTM D 3575-91	SUFFIX D	kPa	N/A	N/A	
WATER ABSORPTION	JIS K6767-1976		g/cu.cm	0.002	0.002	
THERMAL CONDUCTIVITY	ASTM C 518-76		W/m.°C	0.058	N/A	
SERVICE TEMPERATURE	MIN/MAX		°C	-70/+70	-70/+70	