



Gardiner Australia

Manufacturers of foam & rubber

Polyethylene Foam

Chemically cross linked low density closed cell foam

Product	PE 30	PE 20	PE 15	PE 10
Density (ASTM D 3575)	30-40 kg/m ³	40-60 kg/m ³	60-80 kg/m ³	80-110 kg/m ³
Shore OO (ASTM D 2240)	52 - 60	63 - 70	72 - 80	80 - 88
Compression Deflection (ASTM D 3575)	at 25 % > 59 kPa	at 25 % > 75 kPa	at 25 % > 125 kPa	at 25 % > 140 kPa
Compression Set (ASTM D 3575)	25 % max	25 % max	25 % max	25 % max
Water Absorption (ASTM D 3575)	< 5 %	< 5 %	< 5 %	< 5 %
Moisture Permeability (ASTM E 96)	<0.8 gm/m ² 24 hrs @ 90% rh	<0.8 gm/m ² 24 hrs @ 90% rh	<0.8 gm/m ² 24 hrs @ 90% rh	<0.8 gm/m ² 24 hrs @ 90% rh
Elongation (ASTM D 412)	> 120 %	> 150 %	> 190 %	> 250 %
Tensile Strength (ASTM D 412)	> 0.2 Mpa	> 0.3 Mpa	> 0.4 Mpa	> 0.7 Mpa
Tear Resistance (ASTM D624)	> 1.5 Kn/m	> 2.5 Kn/m	> 5 Kn/m	> 6 Kn/m
Temperature Range	-40° C / + 80 ° C Constant + 90° intermittent	-40° C / + 80 ° C Constant + 90° intermittent	-40° C / + 80 ° C Constant + 90° intermittent	-40° C / + 80 ° C Constant + 90° intermittent
Environmental	CFC & HCFC free	CFC & HCFC free	CFC & HCFC free	CFC & HCFC free
Noise Reduction (ASTM E 336)	200 HZ : 2 odB 300 HZ : 3 odB (5mm thick foam)	N/A	N/A	N/A
Thermal Conductivity (ASTM C 51)	0.033 Kcal/MHR ² C	N/A	N/A	N/A