



**Gardiner**  
**Foam Technology**  
Manufacturers of foam & rubber

## Product Data Sheet

### **Orthotic Grade EVA High Density foam**

Chemically cross linked ethylene vinyl acetate closed cell foam

<b>Product</b>	<b>EVA 200</b>	<b>EVA 250</b>	<b>EVA 300</b>	<b>EVA 400</b>
Density (ASTM D 3575)	180-210 kg/m <sup>3</sup>	230-260 kg/m <sup>3</sup>	270-300 kg/m <sup>3</sup>	370-400 kg/m <sup>3</sup>
Hardness (Shore A & 00)	67-70 (shore 00) 23-28 (Shore A)	79-81 (shore 00) 37-40 (shore A)	50-54 (shore A)	60+ (shore A)
Compression Deflection (ASTM D 3575)	at 25 % 147+ kPa	at 25 % 147+ kPa	at 25 % 147+ kPa	at 25 % 147+ kPa
Compression Set (ASTM D 1056)	25 % max	25 % max	25 % max	25 % max
Water Absorption (ASTM D 1056)	< 5 %	< 5 %	< 5 %	< 5 %
Moisture Permeability (ASTM E 96)	<0.8 gm/m <sup>2</sup> 24 hrs @ 90% rh	<0.8 gm/m <sup>2</sup> 24 hrs @ 90% rh	<0.8 gm/m <sup>2</sup> 24 hrs @ 90% rh	<0.8 gm/m <sup>2</sup> 24 hrs @ 90% rh
Elongation (ASTM D 412)	> 200 %	> 220 %	> 250 %	> 300 %
Tensile Strength (ASTM D 412)	> 0.1 Mpa	> 0.13 Mpa	> 0.2 Mpa	> 0.2 Mpa
Tear Resistance (ASTM D624)	> 1 Kn/m	> 1.1 Kn/m	> 1.5 Kn/m	> 2.5 Kn/m
Temperature Range	-40° C / + 60 ° C Constant + 70° intermittent	-40° C / + 60 ° C Constant + 70° intermittent	-40° C / + 60 ° C Constant + 70° intermittent	-40° C / + 60 ° C Constant + 70° intermittent
Environmental	CFC & HCFC free	CFC & HCFC free	CFC & HCFC free	CFC & HCFC free