The Global Leader of Inner Core Composite Foam Materials & Solutions

CLARASONIC (THAILAND) CO., LTD.
99/1 Moo 4 , T. HOUYYAI, AMPHER MUANG, PHETCHABUN - 67000 THAILAND
TEL: 668-1753-0298, Tax ID No. 0675552000085

SONIC - 41 Specifications

Sonic – 41 foam is a mid-density \ low cost foam. Still light in weight, Sonic – 41 has strong strength to weight ratio.

Sonic – 41 can be used as an inner core material that can be bonded to materials including: aluminum, Aramid fiber, carbon fiber, glass fiber, Kevlar as well as many other common materials.

Applications for **Sonic – 41**: playground equipment, X-Ray & CAT SCAN medical tables, RC aircraft, marine and automotive products, speaker cones, as well as any application where a mid-density \ light weight inner core material is required.

Technical Specifications:

Nominal Density 1) ISO 845 Kg/m3: 48
Compressive Strength 2) ASTM D 1621 MPa: 06
Compressive Modulus 2) ASTM D 1621 MPa: 50
Tensile Strength 2) ASTM D 1623 MPa: 1.4
Tensile Modulus 2) ASTM D 1623 MPa: 55
Shear Strength ASTM C 273 MPa: 0.56
Shear Modulus ASTM C 273 MPa: 15
Shear Strain ASTM C 273%: 12
Thermal conductivity: 0.028 W/mK
Water vapour permeability: 4.0 m2/(s -10 -8)
Coefficient of linear expansion: 40 -10 -6/°C
Continuous temp. range: -200 to +70 °C
Max. processing temperature: +90 °C

Material test details:

- Typical density variation ± 10%. All values measured at +23°C.
- Continuous operating temperature is -200°C to +70°C.
- The foam can be used in sandwich structures, for outdoor exposure, with external skin temperatures up to +85°C.
- Operating conditions must be taken into consideration for the very low and high temperatures.
- Maximum processing temperature is dependent on time, pressure and process conditions.
- Normally Sonic foam can be processed at up to +90°C with minor dimensional changes.

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SONIC S-61 Specifications

Sonic – 61 foam is a mid-density \ mid cost foam. Slightly higher in weight but still quite light, Sonic – 61 has very good strength to weight ratio.

Sonic – 61 can be used as an inner core material that can be bonded to materials including: aluminum, Aramid fiber, carbon fiber, glass fiber, Kevlar as well as many other common materials.

Applications for **Sonic – 61**: Marine and automotive products, X-Ray & CAT SCAN medical tables, RC aircraft, windmill blades, speaker cones, as well as any application where a mid-density \ light weight inner core material is required.

Technical Specifications:

Nominal Density 1) ISO 845 Kg/m3: 60
Compressive Strength 2) ASTM D 1621 MPa: 09
Compressive Modulus 2) ASTM D 1621 MPa: 70
Tensile Strength 2) ASTM D 1623 MPa: 1.8
Tensile Modulus 2) ASTM D 1623 MPa: 75
Shear Strength ASTM C 273 MPa: 0.76
Shear Modulus ASTM C 273 MPa: 20
Shear Strain ASTM C 273%: 20
Thermal conductivity: 0.029 W/mK
Water vapour permeability: 4.0 m2/(s · 10-8)
Coefficient of linear expansion: 40 . 10-6/°C
Dimension stability temperature: +105 °C
Continuous temp. range: -200 to +70 °C
Max. processing temperature: +90 °C

Material test details:

- Typical density variation ± 10%. All values measured at +23°C.
- Continuous operating temperature is -200°C to +70°C.
- The foam can be used in sandwich structures, for outdoor exposure, with external skin temperatures up to +85°C.
- Operating conditions must be taken into consideration for the very low and high temperatures.
- Maximum processing temperature is dependent on time, pressure and process conditions.
- Normally Sonic foam can be processed at up to +90°C with minor dimensional changes.

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SONIC - 81 Specifications

Sonic – 81 foam is a high density \ highest cost Sonic foam we offer. Heavier than other Sonic foam materials we carry but still fairly light in weight, Sonic – 81 has excellent strength to weight ratio.

Sonic – 81 can be used as an inner core material that can be bonded to materials including: aluminum, Aramid fiber, carbon fiber, glass fiber, Kevlar as well as many other common materials.

Applications for **Sonic – 81**: Marine and automotive products, windmill blades \ wind energy products, speaker cones, as well as any application where a high density \ excellent strength to weight inner core material is required.

Technical Specifications:

Nominal Density 1) ISO 845 Kg/m3: 80
Compressive Strength 2) ASTM D 1621 MPa: 1.4
Compressive Modulus 2) ASTM D 1621 MPa: 90
Tensile Strength 2) ASTM D 1623 MPa: 2.5
Tensile Modulus 2) ASTM D 1623 MPa: 95
Shear Strength ASTM C 273 MPa: 1.15
Shear Modulus ASTM C 273 MPa: 27
Shear Strain ASTM C 273%: 30
Thermal conductivity: 0.031 W/mK 0.215 Btu.in/(ft2.h.°F) EN 12667
Water vapour permeability: 4.0 m2/(s · 10-8)
Coefficient of linear expansion: 40 . 10-6/°C
Continuous temp. range: -200 to +70 °C
Max. processing temperature: +90 °C

Material test details*:*

- Typical density variation ± 10%. All values measured at +23°C.
- Continuous operating temperature is -200°C to +70°C.
- The foam can be used in sandwich structures, for outdoor exposure, with external skin temperatures up to +85°C.
- Operating conditions must be taken into consideration for the very low and high temperatures.
- Maximum processing temperature is dependent on time, pressure and process conditions.
- Normally Sonic foam can be processed at up to +90°C with minor dimensional changes.