Product Data Sheet

stool

Product Description

The Metal Leg Chair with wood Shell combines modern design with functional comfort, featuring a sleek metal frame and an innovative shell seat. This chair is ideal for both contemporary home interiors and commercial spaces, offering durability and style.

• Types: Available in fabrics, leather or plywood offering variable styles to match different interior designs.

Design:

- **Seat:** designed with sleek wood for a refined look. The warm tones of the wood contrast perfectly with the modern lines, creating a stylish yet functional seating option for your workspace."
- **Metal Legs:** The chair is supported by sturdy metal legs. The metal frame provides stability and a modern aesthetic, often featuring clean lines and a minimalist design.

Dimension: D 509 mm - W 514 mm - H 1034 mm.

Seat Height : 748 mm

Dimension: W 565 mm. D 540 mm. - H 900 mm.

seat height 636 mm

FIRE RETARDANCY

◦**Approved Class 1 fire reaction according to**

UNI 9796 DM 06/03/92 Ministero degli Interni omologazione n° BO1159PVI100001

◦**System Certified in Class 1 of reaction to fire from Ministero degli Interni (Italy) as"TA"**

Materials

1-seats: construction - internal frame made of plywood and soft wood.

Plywood specification

Grade: Classified into Class I, II, III, IV based on face appearance according to

UNI EN 635-2:1996.

Standards: Conforms to UNI EN 314:2005 (Bonding), UNI EN 315: and other relevant standards

Thickness Range: [e.g., 4 mm to 40 mm]

Size Range: [e.g., 1220 mm x 2440 mm]

Physical-Mechanical Characteristics

Density: 400-470 kg/m^3 (12 mm thickness)

Moisture Content: 6-12%

Formaldehyde Emission: ≤ 3.5 mg/m^2/h (Class E1)

2-leg:

Option 1 Metal Leg

Bar 16mm cold-rolled steel According to European standard EN 10204.

Option 2 wood Leg

hardwood legs According to European standard EN 350 for durability classification, with density within the range of 600 to 900 kg/m^3

.3-sponge:

Density: 28 kg/m^3 soft.

Tensile Strength: 0.117 - 0.122 MPa

Tear Strength: 231 - 248 N/m.

Elongation at Break: 259 - 280%

Rebound Test: 43%

Hardness**:** 478.47 N

Option 2

1.*Material Composition: *

- *Foam Type: * Polyurethane foam with a density of 65 kg/m^3.
- *Chemical Properties: * Must conform to the chemical composition specified in

the relevant Egyptian standards.

2. *Physical Properties: *

- *Density: * 65 kg/m^3.

- *Compressive Strength: * Minimum of 250 kPa (according to Egyptian standards).

- *Thermal Conductivity: * Not exceeding 0.025 W/m·K.

- *Flammability Rating: * Must meet the requirements of Egyptian fire safety standards.

4-leather specification and test

- Test Results
- Thickness of Sample:
  - Result: 1.1 mm
  - Type of Test: Thickness of Sample
- Weight of Sample:
  - Result: 514 gm/m
  - Type of Test: Weight of Sample
- Elongation (carrying 2 kg):
  - Result: 20%
  - Type of Test: Elongation when Carrying 2 kg
- Tensile Resistance:
  - Result: 80%
  - Rank (Performance Level): C
  - Type of Test: Tensile Resistance
- Tear Resistance (Test 1):
  - Result: 55 kg/5cm

- Rank (Performance Level): C
- Specification Limits: 20 (B), 25 (C), 38 (A)
- Type of Test: Tear Resistance

— Tear Resistance (Test 2):

- Result: 34 kg/5cm
- Rank (Performance Level): C
- Specification Limits: 14 (B), 18 (C), 28 (A)
- Type of Test: Tear Resistance

— Friction Test - Dry:

- Result: 6.5 (1-5 Grey Scale)
- Rank (Performance Level): C
- Specification Limits: 3 (B), 4.5 (C), 5 (A)adds.
- Type of Test: Friction Test (Dry)

— Friction Test - Moist:

- Result: 6.5 (1-5 Grey Scale)
- Rank (Performance Level): C
- Specification Limits: 3 (B), 4.5 (C), 5 (A)
- Type of Test: Friction Test (Moist)

— Bend Resistance Test:

- Result: 4 (1-5 Grey Scale)
- Specification Limits: 4 (4-5)
- Type of Test: Bend Resistance Test

— Bend Resistance Test Cycles:

- Result: 50,000 cycles
- Rank (Performance Level): C
- Specification Limits: 100,000 cycles

- Type of Test: Bend Resistance Test Cycles
- According to the Egyptian Standard Specification 699.

5-Fabric

fabric Upholstered as per approved sample showing below.

Composition: 73% POLYESTER, 19% MODACRYLIC, 8% COTTON

Abrasion: 60.000 cycles UNE EN ISO 12947

Weight: 421 gr/m2

Coating

- All metal parts coated with epoxy polyester, hybrid system for indoor applications.

Standards for powder coating according to:

Gloss capacity EN-ISO 2813

Impact test EN-ISO 6272

Bend test EN-ISO 1519

Cross cut test EN-ISO 2409PSD: EN-ISO-13320

Film thickness EN-ISO 2360

All according to European and world standards

Or Nikel coating

- All Wood base parts painted by Polyurethane for wood include topcoats, sealers, and varnishes designed for exceptional durability. These high-performance coatings are according to

standards ISO 12944

ASTM D3363.

PSD: EN-ISO-13320

Film thickness EN-ISO 2360

All according to European and world standards

Assembly

The chair comes assembled.

Warranty

This product has a one-year limited warranty against manufacturer defects.

Certifications

ISO 9001:2015
Quality management systems — Requirements

ISO 14001:2015
Environmental management systems — Requirements with guidance for use

ISO 45001:2018
Occupational health and safety management systems — Requirements with guidance for use