

Material properties

Carefully selected materials for highest hygiene and durability



/// SCANMODUL®

Medical & Industrial Material Handling

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Our materials are carefully selected to ensure optimal functionality and a long lifetime. A hospital environment, intensive use, and efficient cleaning methods require certain material properties for various purposes. You are always welcome to contact your local office for advice on which product types that are best suited for your specific use.



Material description



ABS

Acrylnitrile-butadiene-styrene

Material Properties:

Rigid, durable and impact resistant.
A smooth surface finish and structurally stable.

Temperature:

Max. continuous + 70°C
Max. short-term. + 90°C

Chemical tolerance:

Withstands some weak acid, bases, oil and fats.
Avoid solvents.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



PPO

Polymethylmethacrylate

Material Properties:

Rigid and durable clarity with 90 % light transmission, UV-stable.

Temperature:

Max. continuous + 70°C
Max. short-term. + 90°C

Chemical tolerance:

Withstands weak acid,
bases and non polar solvents.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



EP

Epoxy

Material Properties:

Used as powder coating on steel, good mechanical strength, hard and durable.

Temperature:

Max. continuous + 100°C
Max. short-term. + 120°C

Chemical tolerance:

Resistant against bases and limited resistance against strong acid.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



PVC

Polyphenylenoxide

Material Properties:

Abrasion resistant, durable and hard, structurally stable.

Temperature:

Max. continuous + 110°C
Max. short-term. + 120°C

Chemical tolerance:

Withstands weak acid and bases.
Avoid solvents.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



LAM

Laminate

Material Properties:

Sturdy and durable surface, withstands normal impact influences.

Temperature:

Max. continuous + 150°C
Max. short-term. + 180°C

Chemical tolerance:

Limited resistance against weak acid and bases.

Cleaning:

Wipe clean with damp cloth.



PS

Polystyrene

Material Properties:

Rigid, durable and impact resistant.

Temperature:

Max. continuous + 60°C
Max. short-term. + 65°C

Chemical tolerance:

Resistant against water, acids and bases.
No strong oxidized acids.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



Melamine

Material Properties:

Durable, withstands light impact.

Temperature:

Max. not over + 40°C

Chemical tolerance:

Limited resistance against weak acid and bases.

Cleaning:

Do not wash in automatic washing machines, wipe off with the most common detergents and disinfectants on the market.



Polyamid

Material Properties:

High impact resistance, durable, withstands constant bending.

Temperature:

Max. continuous + 105°C
Max. short-term. + 150°C

Chemical tolerance:

Resistant against fuels, lubricants and some solvents.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



Polycarbonate

Material Properties:

Stiff, durable. Highly impact resistant. Virtually unbreakable. Autoclaveable.

Temperature:

Max. continuous + 122°C
Max. short-term. + 140°C

Chemical tolerance:

Resistant against oils and fats. Poor towards strong acids and bases.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



Polyvinylchloride

Material Properties:

Rigid and durable. When stabilised becomes highly impact resistant. Smooth surface finish.

Temperature:

Max. continuous + 60°C
Max. short-term. + 75°C

Chemical tolerance:

Resistant against acids and bases. Limited use with some solvents.

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.



Stainless steel

Material Properties:

Stainless steel type AISI304

Temperature:

Resistant to all temperatures in the clinical sector

Cleaning:

In automatic washing machines* and with most common detergents and disinfectants on the market.

Material Properties are obtained from our suppliers.

This must be considered as a guide and no responsibility can be accepted by ScanModul® for errors and omissions. You can obtain further technical information by approaching ScanModul® directly or one of our representatives.

**Avoid high temperatures and longer delays in washing machines than the suggested figures above.*