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Product Handling Information Sheet

PC antistatic (ESD)

Product Description

Material	PC antistatic is a crystal-clear polycarbonate solid sheet with a permanently antistatic surface finish factory-applied to both sides
Working principle	Permanently electrostatically dissipative surface; no wear-off of the effect over time, unlike migrating antistatic additives
Condition on delivery	Both sides covered with a factory-applied protective film

Storage

Storage conditions	• Store dry, dust-free and protected from direct sunlight • Recommended storage temperature between 15 °C and 30 °C • Leave the protective film on the sheet until further processing • Avoid strong temperature fluctuations and condensation
Support	Store flat on a level, continuously supporting surface to avoid sagging
Stacking	Stack sheets flat and flush at the edges; limit stack height according to operational guidelines; interleaving recommended for longer storage
Storage duration	Under proper storage the antistatic effect remains stable over the usual storage period; timely further processing is nevertheless recommended

Transport

Transport position	Transport flat with edge protection, leave the protective film on
Packaging	Use original packaging or equivalent palletising with edge protection
Handling during transport	Do not drag sheets across rough surfaces to avoid scratching the antistatic coating

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Processing and Machining

Sawing and milling	• Use sharp tools suitable for plastics • High cutting speed, low feed rate to avoid heat build-up • Provide adequate chip removal / cooling
Drilling	Use plastic drill bits with an adapted point angle, clamp the workpiece firmly to avoid chipping
Laser cutting	Possible; leave the protective film on the sheet during cutting where the process allows
Edge finishing and polishing	Edges can be mechanically polished; avoid overheating so the antistatic coating is not damaged
Bonding	Use commercially available PC adhesives; remove the protective film from bonding surfaces and prepare with a plastics-compatible cleaner
Thermoforming and bending	Before thermoforming, check whether the antistatic effect is retained after forming; observe the coating manufacturer's guidance

Installation

Fastening	Provide holes with sufficient clearance for thermal expansion of the material
Grounding	For effective electrostatic dissipation, make frames or mounts conductive and ground them where required by the application
Protective film	Remove the protective film only immediately before or after completing installation to protect the surface during mounting

Cleaning and Care

Cleaning agents	• Use mild soap solution or a plastics-compatible cleaner • Use a soft, lint-free cloth • Do not use abrasives, solvents or aggressive chemicals
Procedure	Pre-rinse the surface with plenty of clean water to remove loose particles before wiping; then wipe dry
Note	Aggressive cleaners and mechanical abrasion can impair the permanent antistatic effect of the coating

Safety Notes

UV / weathering	Not UV-stabilised – not suitable for permanent outdoor use without additional UV protection
Handling	• Remove the protective film only immediately before installation • Do not mechanically damage the antistatic coating on either side (scratches, grinding) • Extract plastic dust generated during machining and dispose of it as usual plastic dust
Occupational safety	Wear a dust mask and safety glasses during machining; ensure adequate ventilation of the work area

Disposal

Material designation	Polycarbonate with antistatic surface finish
Disposal note	Dispose of in accordance with local plastics disposal / recycling regulations

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