

Housings

Medical Grade Plastics as supplied by ALBIS are crucial for the design and manufacture of housings for medical devices such as monitors, diagnostic equipment, and surgical tools. Their lightweight, durable, and cost-effective properties provide excellent protection and flexibility, meeting the stringent requirements of medical environments.

The market for medical devices continues to grow rapidly, driven by advancements in healthcare technologies and the increasing demand for portable, user-friendly devices. Plastics enable manufacturers to create ergonomic and hygienic housings that are resistant to chemicals, impact, and sterilization processes.

Innovations in plastic materials are key to enhancing device performance, ensuring patient safety, and supporting the ongoing development of next-generation medical technologies.



Housings

Application			Material Solutions		
Focus area	Application examples	Key features	Polymer Type / Brand name		Manufacturer
Intensive care devices (clinic applications)	Anesthesia devices Ventilators Ultrasound diagnostic devices Dialysis machines Infusion therapy devices	Mechanical strength Processability Dimensional stability Colourability Desinfection resistance Sterilisability Biocompatibility Flame retardance	Healthcare Compounds	Alcom® MED	MOCOM
			PC	Makrolon®	Covestro
			PC/ABS	Bayblend® M	Covestro
			PC/PBT	Makroblend® M	Covestro
			PSU/PESU/PPSU	Ultrason®	BASF
	Monitorshields Lighting components Patient gas / media guiding components	Transparency Light guiding / diffusion Impact resistance Heat stability Processability Desinfection resistance Sterilisability Flame retardance	Healthcare Compounds	Alcom® MED PC LD	MOCOM
			PA11/PA12	Rilsan® Clear MED	ARKEMA
			PC	Makrolon®	Covestro
			PC-HT	Apec®	Covestro
			PSU/PESU/PPSU	Ultrason®	BASF
Homecare applications	Sleep therapy devices Vital sign monitoring	Transparency Light guiding / diffusion Impact resistance Cleanability	Copolyester	ECOZEN®	SK Chemicals
			MABS	Terlux® HD	INEOS Styrolution
			PC	Makrolon®	Covestro
			SMMA	NAS®	INEOS Styrolution
	Display sheets Light covers	Mechanical strength Processability Dimensional stability Colourability Cleanability Biocompatibility	ABS	Novodur® HD	INEOS Styrolution
			ASA	Luran® S MED	INEOS Styrolution
			PBT	Ultradur® PRO	BASF
			PC	Makrolon®	Covestro
			PC/ABS	Bayblend® M	Covestro
			PC/PBT	Makroblend® M	Covestro
Wearables	Vital sign monitoring Point-of-care-treatment devices	Biocompatibility Cleanability Optical appearance	ABS	Novodur® HD	INEOS Styrolution
			ASA	Luran® S MED	INEOS Styrolution
			PC	Makrolon®	Covestro



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Head Office

ALBIS Distribution GmbH & Co. KG
Mühlenhagen 35
20539 Hamburg · Germany
T +49 40 78105 0
healthcare@albis.com
albis.com

Visit us on LinkedIn:



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