

Diagnos**t**ics

From in vitro diagnostics (IVDs) to highly specialized laboratory devices, plastics are the preferred choice for manufacturing diagnostic products due to their versatility, durability, and cost-efficiency. Plastics offer not only high precision but also excellent chemical resistance and sterilizability—essential requirements for use in clinical and diagnostic environments.

In the recent years the demand for reliable, precise, and rapid diagnostic procedures has surged, particularly in response to global challenges like the COVID-19 pandemic. IVD products, used for detecting infectious diseases, genetic disorders, and other medical conditions, have gained significant importance. The growing demand for portable and user-friendly diagnostic systems as well as point of care treatments (POCT) has further driven the development of advanced plastics.

In laboratory supplies, products such as pipette tips or sample containers are indispensable. Here, Medical Grade Plastics supplied by ALBIS meet the high standards required in research and clinical diagnostics. Characteristics such as biocompatibility, sterility, and freedom from contamination risks are of utmost importance.



Healthcare Polymer Solutions.

Diagnostics

Application			Material Solutions		
Focus area	Application examples	Key features	Polymer Type / Brand name		Manufacturer
Laboratory disposables & consumables	Cuvettes Well plates, PCR plates Flasks & beakers & vessels Centrifuge & test tubes Pipette tips Petri dishes	Locked formulation / Low L&E profile Easy flow / fast cycle Transparency Barrier property Dimensional stability & low warpage	PC	Makrolon®	Covestro
			PC-HT	Apec®	Covestro
			PE	Purell®	LyondellBasell
			PET(g)	SKYPET®	SK Chemicals
			PP	Purell®	LyondellBasell
			PS	Styrolution® PS	INEOS Styrolution
Laboratory instruments and equipment	Specimen preparation: filters, incubators, centrifuges, dryers and ovens Analysers for immunoassay, urinalysis & hematology Microscopes Chromatographs	Dimensional stability & low warpage Desinfection resistance & ESCR Sterilisability Colourability Flame retardance	ASA	Luran® S MED	INEOS Styrolution
			PARA	IXEF® HC/GS	Syensqo
			PC	Makrolon®	Covestro
			PC/ABS	Bayblend® M	Covestro
			PC/PBT	Makroblend® M	Covestro
			PC-HT	Apec®	Covestro
Point of Care Testing (POCT)	Medical thermometer Blood pressure monitor Blood glucose meter Urine dip test Eye examination Home pregnancy test	Impact resistance & toughness Optical appearance Desinfection resistance & ESCR Biocompatibility Low friction Dimensional stability & low warpage	PBT	Ultradur® PRO	BASF
			PC	Makrolon®	Covestro
			PC/ABS	Bayblend® M	Covestro
			PC/PBT	Makroblend® M	Covestro
			POM	Ultraform® PRO AT	BASF
			TPE	Evoprene® R99xx series	Alphagary
Transportation and Storage of samples and test reagents	Films & wrapping material Racks and nests for reusable and single use pipettes, cuvettes & other delicate items Bottles & closures for test fluids (reagents, buffer solutions, assays, dyes, stains, solvents) Sample receptacles and containers, such as (vacuum) blood containers	Barrier property Chemical resistance Transparency Locked formulation / Low L&E profile Heat stability Easy flow / fast cycle	ABS	Novodur® HD	INEOS Styrolution
			Healthcare Compounds	Alcom® MED PP / PS	MOCOM
			PE	Purell®	LyondellBasell
			PETG	SKYGREEN®	SK Chemicals
			PP	Purell®	LyondellBasell
			SMMA	NAS®	INEOS Styrolution



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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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