

Drug delivery

Medical Grade Plastics as supplied by ALBIS are essential for modern drug delivery devices, such as inhalers, injectors, and infusion pumps. Their versatility, light weight, and durability allow for precise, user-friendly, and cost-effective solutions that enhance patient adherence and treatment efficiency.

The market for drug delivery devices has seen significant growth triggered by the trend to self-administration devices and advanced therapies for chronic diseases. Our materials help to make these devices portable, reliable, and safe for long-term use.

With ongoing innovations, plastic materials continue to drive advancements in personalized medicine, offering improved drug release mechanisms and ensuring patient safety in diverse therapeutic applications.



Drug delivery

Application			Material Solutions		
Focus area	Application examples	Key features	Polymer Type / Brand name		Manufacturer
Connected drug delivery (devices)	Electronic DD devices Connected DD devices Wearables Electronic pumps	Biocompatibility Chemical resistance Design flexibility Disinfection resistance & ESCR Easy processing Flame retardance Laser printability Low friction	ABS	Novodur® HD	INEOS Styrolution
			ASA	Luran® S MED	INEOS Styrolution
			Healthcare Compounds	Alcom® MED	MOCOM
			MABS	Terlux® HD	INEOS Styrolution
			MBS	Zylar®	INEOS Styrolution
			PBT	Ultradur® PRO	BASF
			PC	Makrolon®	Covestro
			PC/ABS	Bayblend® M	Covestro
			PC/PBT	Makroblend® M	Covestro
			POM	Ultraform® PRO AT	BASF
IV systems & fluid delivery	Connectors, clamps & spikes Tubes Pouches & bags Bottles	Barrier property Biocompatibility Chemical resistance Extrusion grades	ABS	Novodur® HD	INEOS Styrolution
			Copolyester	ECOZEN®	SK Chemicals
			PEBA	Pebax® MED	ARKEMA
			PP / PE	Purell®	LyondellBasell
			SAN	Luran® HD	INEOS Styrolution
			SBC	K-Resin®	INEOS Styrolution
			SBC	Styrolux®	INEOS Styrolution
			S-TPE	Styroflex®	INEOS Styrolution
Liquid drug delivery (in tissue by syringes)	Disposables Syringes Prefilled syringes Safety syringes Needle-free injectors Injection pens	Biocompatibility Dimension stability & low warpage, Easy processing Impact resistance / Toughness Resistance against aggressive drugs Rigidity, Sterilisability Transparency	Copolyester	ECOZEN®	SK Chemicals
			MABS	Terlux® HD	INEOS Styrolution
			MBS	Zylar®	INEOS Styrolution
			PC	Makrolon®	Covestro
			PP / PE	Purell®	LyondellBasell
Respiratory drug delivery (into the lungs)	Inhalers Meter-dosed inhaler (MDI) Dry powder inhaler (DPI) Soft mist inhaler (SMI) Nebulizers Jet nebulizers Ultrasonic nebulizers Mesh nebulizers Smart inhalers	Biocompatibility Brilliance / Look and feel Chemical resistance Design flexibility Dimension stability & low warpage High-quality surface appearance Impact resistance / Toughness Low friction Sterilisability	ABS	Novodur® HD	INEOS Styrolution
			ASA	Luran® S MED	INEOS Styrolution
			Copolyester	ECOZEN®	SK Chemicals
			Healthcare Compounds	Alcom® MED	MOCOM
			MABS	Terlux® HD	INEOS Styrolution
			MBS	Zylar®	INEOS Styrolution
			PBT	Ultradur® PRO	BASF
			PC	Makrolon®	Covestro
			PC/ABS	Bayblend® M	Covestro
			PEBA	Pebax® MED	ARKEMA
			POM	Ultraform®PRO AT	BASF
			PP / PE	Purell®	LyondellBasell
			SAN	Luran® HD	INEOS Styrolution
			SBC	Styrolux®	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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