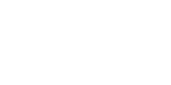
POLYMIX

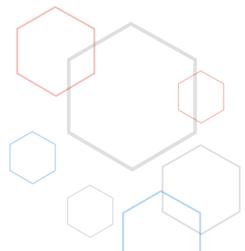
AT THE HEART OF MATERIALS

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PREVENTING, DIAGNOSING, HEALING

ARE THE KEY OBJECTIVES OF THE HEALTH ACTORS, HOSPITALS AND LABORATORIES

French leader in the distribution of technical polymers,
POLYMIX is more than ever positioned as an innovation finder.
For 40 years, POLYMIX has displayed a know-how
and a multi-skill in the commercialization of thermoplastic materials.

Preventing, diagnosing and healing are the key objectives of health actors, hospitals and laboratories.

POLYMIX supports you in your projects, with a large and diversified range as well as a recognized expertise in medical matters. Our materials meet the requirements of medical and diagnostics devices, pharmaceutical and medical packaging. We support you from the identification of materials to their homologation.

POLYMIX partners are **ISO13485** certified and offer materials in compliance with the pharmacopea regulatories: **ISO10993**, **USP6**, **EP3.1**, **USP661**, and **FDA Drug Master File**.

In addition, the inherent properties of thermoplastics offer many solutions for your projects:

- Transparency or opacity
- Physical and mechanical properties
- hardness and flexibility
- Modulus
- Density
- Thermal properties
- Tribological properties
- Improved chemical resistance
- Lipid resistance
- Resistance to tearing and percability, breakability of packaging



STERILIZATIONS AND DESINFECTIONS

Concerned about the quality of the medical devices after their sterilization, POLYMIX has the expertise and offers tailored solutions according to the different processes intented to single use and multi-use medical devices:

- Ethylene oxide
- Irradiation : gamma, Xray, E-beam
- Autoclave
- Repeated disinfections (solvents)
- Decontamination : UV-C and antimicrobial solutions





DIAGNOSTIC DEVICES: PIPETS, TUBES, CONTAINERS

PP homopolymers, PP copolymers, SMMA, PS, MABS, PET, PC

Properties (depending on the material):

- Biocompatibility
- High transparency
- Impact resistance
- Sterilization:
 Eto, irradiation, autoclave

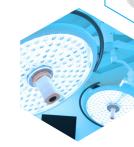


SINGLE-USE MEDICAL DEVICES

PP homopolymers, PP copolymers, SMMA, PS, PET, PC, MABS, PBT, POM, SBC, TPU, EVA

Properties (depending on the material):

- Biocompatibility
- Sterilization: Eto, irradiation, autoclave
- Transparency / opacity



ELECTRONIC AND CONNECTED MEDICAL DEVICES

Biobased PA11 and PEBA, ABS, MABS, PC, PC copolymers, PC/ABS - PC/PET - PC/PBT alloys, PBT, PPO, PPSU, PEI, conductive materials

Properties (depending on the material):

- Biocompatibility
- Aesthetics and metallization
- UL94V0 flame retardant (including halogen free)
- Impact resistance

- Chemical resistance to solvents and oils
- Electrical conductivity
- Ultrasonic transparency
- · Sterilization: Eto, irradiation, autoclave

SURGICAL DEVICES

PC, PC copolymers, ABS, PC/ABS - PC/PBT alloys, PBT, POM, PPO, PPSU, PEI, PEK

Properties (depending on the material):

- Biocompatibility
- Aesthetics
- UL94V0 flame retardant (including halogen free)
- Impact resistance
- Chemical and lipid resistance

- Tribological properties
- Metal replacement
- Increased capacity in autoclave (<2,500 cycles at 134 °)

FLEXIBLE AND RIGID PACKAGING

LDPE, HDPE, EVA, PP homo and copolymers, PET, PC

Properties (depending on the material):

- Biocompatibility
- Transparency
- · Sterilization: Eto, irradiation, autoclave
- Resistance to tearing and percability, breakability
- Impact resistance (including cold: -30°)



SUSTAINABLE SOLUTIONS

- PA11 RILSAN® and PEBAX® Made in France and biobased from castor oil
- PC LEXAN™ TRUCIRCLE from renewable resources: recycled plastic waste and FSC certified pine oil (origin Finland)
- PREXELENT[™] anti-microbial technology pine oil-based and free of silver salts



POLYMIX							STERILIZATION	CLIENICAL		
			MEDICAL CERTIFICATIONS			GAS	IRRADIATION	AUTOCLAVE	CHEMICAL RESISTANCE	TRANSPARENT
			ISO10993	USP6	DMF	ETO	GAMMA / E-BEAM / X-RAY	134°C		
	HPP	PP	•	•	•	+++	++	121°C - 1 cycle	+++	•
	HPR	РР соро	•	•	•	+++	++	121°C - 1 cycle	+++	•
REPSOL	HPP-RMD / HPR-RMD Improved irradiation	PP / PP copo	•	•	•	+++	+++	121°C - 1 cycle	+++	•
BERTOL	HLD	LDPE	•	•	•	+++	++	0	+++	0
Healthcare 🗵	HHD	HDPE	•	•	•	+++	++	121°C - 1 cycle	+++	0
	HVA	EVA copo	•	•	0	+++	++	0	+++	0
Resirene	HH104 MED	PS	0	•	0	+++	++	0	+	0
	6110MED - 6420MED	HIPS	0	•	0	+++	++	0	+	0
	CET®	SMMA	0	•	0	+++	++	0	+	0
Į _N O, O, RAMA	RAMAPET® N180 - N1S	PET	•	0	•	+++	+++	0	++	•
for a better future	KEPITAL™ MX	РОМ	•	•	•	+++	+	< 50 cycles	+++	0
ARKENA Made in France	RILSAN®	PA11	0	0	0	0	•	0	+++	0
	RILSAN® CLEAR	PA11 transparent	0	0	0	0	•	0	++	0
	PEBAX® Rnew	PEBA	0	0	0	0	0	0	++	0
	LEXAN™ HP	PC	•	•	0	+++	++	< 10 cycles	+	0
	LEXAN™ HPS Improved irradiation	PC	•	•	•	+++	+++	< 10 cycles	+	0
SUSTAINABLE	CYCOLAC™ HMG	ABS	•	•	•	+++	++	0	+	0
	CYCOLOY™ HC	PC/ABS	•	•	•	+++	++	0	+	0
	XYLEX™ HX	PC/PET	•	•	•	+++	+++	0	++	0
	XENOY™ HX	PC/PBT	•	•	•	+++	+++	0	++	0
	VALOX™ HX	PBT	•	•	0	+++	+++	0	+++	0
	LEXAN™ from renewable feedstock Recycled and Bio-based ressources	PC	0	•	0	+++	0	0	+	0

POLYMIX			MEDICAL CERTIFICATIONS			STERILIZATION			CHEMICAL	TRANSPARENT
						GAS	IRRADIATION	AUTOCLAVE RESISTANCE		TRANSPARENT
			ISO10993	USP6	DMF	ETO	GAMMA / E-BEAM / X-RAY	134°C		
حرات خطاعاًد Specialties	LEXAN™ HPX	PC copo	•	•	•	+++	++	< 100 cycles	+	•
	LEXAN™ HPH	PC copo	•	•	•	+++	++	< 300 cycles	+	•
	ELCRES™ CRX	PC copo	0	0	•	+++	++	< 10 cycles	++	•
	ELCRES™ CRX	PC copo/PBT	0	0	•	+++	+++	0	+++	0
	ELCRES™ CYCOLOY™ CX2244ME	PC copo/ABS	•	•	•	+++	++	0	+++	0
	NORYL™ HN	PPO	•	•	•	+++	+++	< 2 500 cycles	+++	0
	ULTEM® HU	PEI	•	•	•	+++	+++	<1000 cycles	+++	•
少 你巨新村	PARYLS®	PPSU	•	0	0	+++	++	< 500 cycles	+++	•
GHARDA PLASTICS A BUSINESS DIVISION OF GRANDA CHEMICALS LIMITED	G-PAEK™ 1200G	PEK	•	•	•	+++	+++	< 1500 cycles	+++	0
@GR+(()	ISOTHANE® SERIE 3000	TPU ether	0	0	0	+++	+	0	++	0
	ISOTHANE® SERIE 5000	TPU ether	0	0	•	+++	+	0	++	•
PREMIX	PRE-ELEC®	Conductive compounds	•	•	•	+++	•	•	•	0
CHIMEI	POLYLAC® PA757F	ABS	0	•	•	+++	++	0	+	0
	POLYLAC® 704LRP	ABS	•	0	0	+++	++	0	+	0
	POLYLAC® PA758	MABS	0	•	0	+++	++	0	+	•
	POLYLAC® PA703TRP	MABS	•	0	•	+++	++	0	+	•
	KIBITON® PB-5903	SBC	0	•	•	+++	+	0	++	•

ADDITIONAL RANGE

₽R≣XELENT™

Sustainable Antimicrobial Agent from pine oil



Purging compound

for colors and resins change Effectively removes contamination Fast action and non-abrasive Easily removed FDA certified grades

NOTE
ISO 10993 - The ISO 10993, regulated by the International Organization for Standardization (ISO), is a standard series for the biological evaluation of medical devices. The aim of the standard is to evaluate the biological assessment regarding the biocompatibility of the materials with the human body. Important parts:
- ISO 10993-5:2009 Biological evaluation of medical devices Part 5: Tests for in vitro cytotoxicity
- ISO 10993-1:2006 Biological evaluation of medical devices Part 11: Tests for systemic toxicity
- DMF - A Drug Master File (DMF) is a confidential, detailed document about active substances contained in the medical product. It is submitted from manufacturers to the U.S. Food and Drug Administration (FDA). A DMF contains the chemistry, manufacturing and controls of a component of a drug product. There is no legal obligation to create a DMF and to submit it to the authorities. USP - The United States Pharmacopeia (USP) includes standards to guarantee the quality and purity of medicines and health technologies worldwide. It covers tests relating to the biological reactivity of elastomers, plastics and other polymer materials with direct or indirect customer contact. USP Class VI is the most stringent test and accepted in the sector.

O Yes O No On request +: limited ++: good +++: excellent

DISCLAIMER

Any information given on the chemical and physical characteristics of products, including technical advice on applications whether verbally, in writing or by testing the product, is given to the best of our knowledge. It does not exempt the buyer from carrying out his own investigations and tests in order to ascertain the products' specific suitability for the purpose intended. The buyer is solely responsible for the application, utilization and processing of the products and must observe the laws and government regulations and the consequential rights of any third party. At all times our Conditions of Sale apply. Please contact us to inquire availability per represented countries.

AMP-POLYMIX Group doesn't authorize the use of materials for class III material devices.