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PREVENTING, DIAGNOSING, HEALING

ARE THE KEY FOCUS 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 focus 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

- ☑ Density
- ☑ Thermal properties
- ☑ Tribological properties
- ☑ Lipid resistance
- ⊠ Resistance to tearing and percability, breakability of packaging
- Sustainable materials



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

- ☑ Biocompatibility
- ☑ High transparency

SINGLE-USE MEDICAL DEVICES

- ☑ Biocompatibility
- ☑ Materials for functional components

ELECTRONIC AND CONNECTED MEDICAL DEVICES

- ☑ Biocompatibility

- ☑ Halogen free UL94 V0 ignifugation
- Radio-frequencies and electrostatic discharges protection





SURGICAL DEVICES

- ☑ Biocompatibility
- ✓ Metal replacement
- Aesthetics
- ✓ Increased autoclave capacity (< 2 500 cycles at 134°)

FLEXIBLE AND RIGID MEDICAL PACKAGING

- ☑ Biocompatibility
- ☑ Transparency
- ☑ Barrier effect
- ☑ Resistance to tearing, piercing and breakability
- ☑ Impact resistance including cold impact

SUSTAINABLE SOLUTIONS

Bio-based and recycled materials in the respect of the biocompatibility



POLYMIX			MEDI	CAL							
POLYN	MiX'		MEDI CERTIFIC		STERILIZATION GAS IRRADIATION		AUTOCLAVE	CHEMICAL RESISTANCE	TRANSPAREN ^T		
			ISO10993	USP6	ETO	GAMMA / E-BEAM / X-RAY	134°C				
	HPP	PP	•	•	000	•••	121°C - 1 cycle	000	•		
	HPR	РР соро	•	•	000	•••	121°C - 1 cycle	000	•		
	HPP-RMD / HPR-RMD Improved irradiation	PP / PP copo	•	•	000	•••	121°C - 1 cycle	000	•		
REPSOL	HLD	LDPE	•		000	•••	0	000	•		
Healthcare	HHD	HDPE	•	•	000	••0	121°C - 1 cycle	000	•		
ricartificare 🚨	HVA	EVA copo	•	•	000	•••	0	000	•		
SUSTAINABLE	Sustainable and biobased range ava	ailable for PP, PE and EVA.									
	HH104 MED	PS	0	•	000	•••	0	•00	•		
Resirene	6110MED - 6420MED	HIPS	0	0	000	•••	0	•00	0		
	CET®	SMMA	0	0	000	•••	0	•00	•		
KPAC Engineering Plastics	KEPITAL™ MX	POM	•	•	000	•00	< 50 cycles	000	0		
	RILSAN®	PA11	0	0	000	•••	< 100 cycles	000	0		
	RILSAN® CLEAR	PA11 transparent	•	0	000	•••	< 100 cycles	000	0		
ARKEMA	PEBAX®	PEBA	•	0	000	•••	< 25 cycles	000	0		
SUSTAINABLE	Sustainable and biobased range from renewable castor oil available.										
	CYCOLAC™ HMG	ABS	•	•	000	••0	0	•00	0		
۷	VALOX™ HX	PBT	•	•	000	000	0	000	0		
سبابک	LEXAN™ HP	PC	•	•	000	•••	< 10 cycles	•00	•		
<i>ح</i> طاعات	LEXAN™ HPS Improved irradiation	PC	•	•	000	000	< 10 cycles	•00	•		
SUSTAINABLE	Sustainable range coming from rene	wable pine oil available for	PC.								
	CYCOLOY™ HC	PC/ABS	•	•	000	••0	0	•00	0		
	XYLEX™ HX	PC/PET	•	•	000	000	0	••0	•		
	XENOY™ HX	PC/PBT			000	000	0	000	0		

INN	NOVATIVE THERI	MOPLASTICS SOLUT
P	OLYN	1iX
		LEXAN™ HPX
		LEXAN™ HPH
		ELCRES™ CRX
	سابک عادا <i>ف</i>	ELCRES™ CRX
		ELCRES™ CYCOLOY™ CX224
	Specialties	110 D) (1 TM 1 1) 1

				GAS	IRRADIATION	AUTOCLAVE		
		ISO10993	USP6	ETO	GAMMA / E-BEAM / X-RAY	134°C		
LEXAN™ HPX	РС соро	•	•	000	••0	< 100 cycles	•00	•
LEXAN™ HPH	РС соро	•	•	000	••0	< 300 cycles	•00	•
ELCRES™ CRX	РС соро	•	•	000	••0	< 10 cycles	000	•
ELCRES™ CRX	PC copo/PBT	•	•	000	000	0	000	0
ELCRES™ CYCOLOY™ CX2244ME	PC copo/ABS	•	•	000	••0	0	000	0
NORYL™ HN	PPO	•	•	000	000	< 2 500 cycles	000	0
ULTEM® HU	PEI	•	•	000	•••	< 1 000 cycles	000	•
Sustainable range coming from renewable pine oil available for PC copo, PPO and PEI based materials.								

MEDICAL

CERTIFICATIONS

STERILIZATION

CHEMICAL

RESISTANCE

0

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●○○: limited ●○○: good ●○○: excellent

TRANSPARENT

0

0

0

0

SUSTAINABLE

elastron ENGINEERING LIFE	ELASTRON	TPE	•	•	•••	•	•	•••	
@(1R+(()	ISOTHANE® SERIE 5000	TPU ether	0	•	000	•00	0	•••	
GHARDA PLASTICS A BUSINESS DIVISION OF GHARDA CHEMICALS EMITED	G-PAEK™ 1200G	PEK	•	•	000	•••	< 1500 cycles	•••	
W 你 巨新村	PARYLS®	PPSU	•	0		••0	< 500 cycles	000	

	ENGINEERING CIFE							
	PREMIX	PRE-ELEC®	Conductive compounds	•	•	000	•	•
		POLYLAC® PA757F	ABS	0	•	000	••0	0
		POLYLAC® 704LRP	ABS		0	000	••0	0

CHIMEI

DOLVI ACE DATEO	MADC	_					• • • •	
POLYLAC® PA758	MABS	O	•	000	•••	O	•00	0
POLYLAC® PA703TRP	MABS	•	0	000	•••	0	•00	•
KIBITON® PB-5903	SBC	0	•	000	•00	0	•••	•

ADDITIONAL RANGE		
Purge Compounds No. 10 Purging Compounds	Purging compound for colors and resins change. Effectively removes contamination. Fast action and non-abrasive. Easily removed.	
	Permanent antistatic materials dedicated to the medical environment.	



O Yes O No ○ On request

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 10993-11:2006 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 elostomers, plastics and other polymer materials with direct or indirect customer contact. USP Class VI is the most stringent test and accepted in the sector.

The AMP-POLYMIX Group authorises the use of materials for class I and II medical devices. For class III and/or implantable medical devices (short term, long term and permanent), the use of a material must be subject to a prior negotiated agreement between the different parties.

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.

