



## Europe's dedicated Medical Polymer Compounder

IPC - Innovative Polymer Compounds.  
ISO 13485 accredited Medical Polymer Compounder.

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# Focused exclusively on Medical Polymer Compounds

IPC - Innovative Polymer Compounds' manufacture a comprehensive range of Medical Polymers, specifically developed to meet the stringent requirements of Medical Device applications.

Exclusively serving the Medical Device sector since 2008, IPC have the in-house expertise and experience to support you with your Medical Polymer Compounding requirements.

Based in Kilbeggan, County Westmeath, Ireland, IPC is accredited to *ISO 13485:2016* and *ISO 9001:2015*.



## Compounding for a wide range of Medical Device applications

Our advanced polymer compounds power a diverse range of Medical Device applications for long and short-term implantables such as vascular tubing, neurological tubing, orthopaedics, 3D Printing, feminine health, stomach, ocular and dental, as well as external applications such as capnography products, surgical instruments and inhalers.

Engineered for performance and reliability, our compounds help drive innovation in medical technology.

### Our offering for the Medical Device and Healthcare sectors include:

- Short lead times and flexible lot sizes, MOQ from 5kg up!
- Minimum 2-year notification of change agreements with most suppliers. Local warehousing offers security of supply
- With a flat management structure, we provide unparalleled customer service and technical support to the highest industry standards – we support you from concept through to commercialisation

- Regulatory Support - Completely transparent Certificates of Conformity (COC), Certificates of Analysis (COA) and Regulatory Declarations
- A wide range of ISO 10993 Polymers compounded including but not limited to ABS, PC/ABS, PA11, PA12, PBT, PC, PE, PEBA, PEEK, PEKK, PP, PPSU, TPE, TPU, biopolymers, resorbable polymers and many more!
- With our exclusive range of ISO 10993 approved pigments, our R&D team delivers coloured compounds, matching to samples and international colour systems such as Pantone and RAL.
- Experienced in compounding a comprehensive selection of functional additives including but not limited to radiopaque additives, pigments, calcium additives for osseo integration, antimicrobial additives, desiccant additives, lubricious additives, Heat & Light stabilisers, and many more!

# Medical Polymer Compounds — Overview

At IPC we compound a full range of medical polymers that are specifically designed for the medical device and healthcare sectors. Below is our **full list of medical polymers**, if there is a product not listed below, please feel free to contact us we would be delighted to assist.

Name	Type
<b>Manufacturer: Corbion</b>	
Purasorb PLDL 7038	70/30 L-lactide/DL-lactide
Purasorb PLG 85/15P	85/15 L-Lactide/Glycolide
Purasorb PLG8531	85/15 L-Lactide/Glycolide
Purasorb PL 38	PLA
<b>Manufacturer: Elix Polymers</b>	
ELIX ABS M203FC	ABS
<b>Manufacturer: SABIC</b>	
Cycolac HMG47MD-1H1000	ABS
VALOX 357X	PBT/PC
Lexan HP3REU	PC
Lexan HPS7	PC
Cycoloy FR Resin CX2244ME	PC/ABS
Cycoloy Resin HC1204HF	PC/ABS
<b>Manufacturer: Ineos Styrolution</b>	
Novodur HD 15	ABS
Novodur HD M203FC	ABS
Terlux HD2802	MABS
Terlux HD2822	MABS
<b>Manufacturer: Eastman</b>	
Tritan Copolyester MX711	Copolyester
Tritan Copolyester MX731	Copolyester
<b>Manufacturer: Borealis</b>	
Borimed HE2581PH	HDPE
Borimed HE9621-PH	HDPE
Borimed LE6600-PH	LDPE
Borimed HD810MO	PP
Borimed HD840MO	PP
Borimed RB845MO	PP
<b>Manufacturer: Chevron Phillips Chemical Company</b>	
Marlex 9012	HDPE
Marlex EHM 6007	HDPE

Name	Type
<b>Manufacturer: Dow Chemical</b>	
DOW 25055E	HDPE
DOW DMDA-8907 Health+	HDPE
Dowlex 2535y	LLDPE
<b>Manufacturer: LyondellBasell</b>	
Alathon M4612	HDPE
Purell GA7760	HDPE
Purell GC7260	HDPE
Purell GF4750	HDPE
Purell GF4760	HDPE
Purell 1840H	LDPE
Purell KT MR07	Plastomer
Profax PF511	PP
Purell RP270G	PP
<b>Manufacturer: ExxonMobil</b>	
Vistamaxx 6502	ISO Prop random Ethy
<b>Manufacturer: SK Functional Polymer</b>	
Orevac 18300M	LDPE
<b>Manufacturer: Evonik Industries</b>	
Vestamid Care ML67	PA
Trogamid MX73	PA CM12
Vestamid Care ML24	PA12
Trogamid CX 7323	PA12
Vestamid Care ME55	PEBA
Vestamid Care ME62	PEBA
Evonik Care ME71	PEBA
Vestamid Care ML21	PEBA
<b>Manufacturer: Arkema</b>	
Rilsan BESNO MED	PA11
Rilsan BESVOA MED	PA11
RILSAN BMNO MED	PA11
Rilsamid AESNO MED	PA12



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Name	Type
<b>Manufacturer: Arkema</b>	
Pebax 2533 SA01 MED	PEBA
Pebax 3533 SA01 MED	PEBA
Pebax 4033 SA01 MED	PEBA
Pebax 4533 SA01 MED	PEBA
Pebax 5533 SA01 MED	PEBA
Pebax 6333 SA01 MED	PEBA
Pebax 7033 SA01 MED	PEBA
Pebax 7233 SA01 MED	PEBA
Pebax 7433 SA01 MED	PEBA
Pebax MV 1074 SA01 MED	PEBA
<b>Manufacturer: EMS-Grivory</b>	
Grilamid L20G	PA12
Grilamid L25	PA12
Grilflex ELG 6260	PA12 - Elastomer
Grilamid TR55	PA12 -TR
Grilamid TR55LX	PA12 -TR
Grilamid TR90 Natural	PA12 -TR
<b>Manufacturer: Covestro Ag</b>	
Makrolon 2458	PC
Bayblend M850 XF	PC/ABS
Makroblend M525	PC/PBT
Texin RxT 50D	TPU
Texin RxT 65D	TPU
Texin RxT 90A	TPU
<b>Manufacturer: Trinseo</b>	
Calibre 2060-6	PC
Calibre 2061-10	PC
Calibre 2061-22	PC
Calibre Megarad 2081-15	PC
<b>Manufacturer: Solvay S.A.</b>	
KETASPIRE KT-820 NATURAL	PEEK
Radel R5000	PPSU
Veriva VR-500	PPSU
Udel 1700NT-11	PSU
<b>Manufacturer: SK Chemicals</b>	
SKYGREEN S2008	PETG
<b>Manufacturer: Flint Hill Resources</b>	
Flint Hills PP 23R2A	PP
<b>Manufacturer: BASF</b>	
Kollidon K30	PVP
Elastollan 1164 D 11 FC	TPU (polyether)
Elastollan 1198 A 10 FC	TPU (polyether)
<b>Manufacturer: ACTEGA DS</b>	
ProvaMed TPE 1080	TPE
<b>Manufacturer: GLS Thermoplastic Elastomers</b>	
Versaflex OM 1040X-1	TPE

Name	Type
<b>Manufacturer: Kraiburg TPE</b>	
Thermolast M TM6 ADT	TPE
Thermolast M TM3 MED	TPE
Thermolast M TM4 ADT	TPE
Thermolast M TM4 LFT	TPE
Thermolast M TM4 MED	TPE
Thermolast TM5 ADT	TPE
Thermolast M TM6 MED	TPE
Thermolast TM9 MED	TPE
<b>Manufacturer: Melitek A/S</b>	
Meliflex M6608	TPE
<b>Manufacturer: Teknor Apex</b>	
Medalist MD-575	TPE
<b>Manufacturer: Lubrizol Advanced Materials Inc.</b>	
Carbothane 3575A	TPU
Carbothane PC-3572D-B20	TPU
Carbothane PC 3572D	TPU
Carbothane PC-3555D-B20	TPU
Carbothane PC3555D	TPU
Carbothane PC3595A	TPU
Isoplast 2530	TPU
Pellethane 2363 55D	TPU
Pellethane 2363 55DE	TPU
Pellethane 2363 65D	TPU
Pellethane 2363 75D	TPU
Pellethane 2363 80A	TPU
Pellethane 2363 80AE	TPU
Pellethane 2363 90A	TPU
Tecoflex EG60D	TPU
Tecoflex EG60D-B40	TPU
Tecoflex EG72D	TPU
Tecoflex EG80A	TPU
Tecoflex EG80A-B20	TPU
Tecoflex EG80A-B40	TPU
Tecoflex EG85A	TPU
Tecoflex EG85A-B20	TPU
Tecoflex EG93A	TPU
Tecoflex EG93A-B20	TPU
Tecoflex EG93A-B30	TPU
Tecophilic HP93A100	TPU
Tecothane AR-62A	TPU
Tecothane TT-1055D	TPU
Tecothane TT-1065D	TPU
Tecothane TT-1069D	TPU
Tecothane TT-1072D	TPU
Tecothane TT-1074A	TPU
Tecothane TT-1095A	TPU

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## Functional Additives — Polymer Compounds

As medical devices become more complex and sophisticated so too must the raw materials used in their production. It is therefore not a surprise that polymers with functional additives have become increasingly utilised in medical device manufacturing. From implants right through to disposables, the requirements of medical polymers are growingly varied and specialised. The use of Medical Polymer compounds makes this possible.

### Full range of functional additives

At IPC – Innovative Polymer Compounds we compound a full range of functional additives that are specifically designed for the medical device and healthcare sectors.

We offer a personalised approach, to ensure that our customers receive the right polymers with the exacting attributes that fit the specific and demanding requirements of the medical device. From anti-microbial additives right through to antioxidants and U.V. Stabilisers, whatever your additive requirement we can find a solution.

### Our functional additives include:

- Antimicrobial
- Antioxidants
- ISO 10993 Pigments
- Laser marking additives
- Low Co-efficient of Friction
- Osseointegrative – Hydroxyapatite, Beta-TCP, etc.
- Process Aids – Slip Additive
- Radiopacifiers – BaSO<sub>4</sub>, BiO<sub>2</sub> (CO<sub>3</sub>), BiClO, Tungsten, etc.
- U.V. Stabilisers

Based on our experience in the industry, we understand that virgin polymers can occasionally be limited in their capabilities. To address these limitations, IPC compound the necessary functional additives into virgin polymers. The result is a healthcare polymer compound, that meets the specific and demanding requirements of the medical application.



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## ISO 10993 — Colour Pigments

Colour plays a key role when it comes to medical devices, it is used to differentiate as well as to easily identify. In addition, from an aesthetic and branding perspective it is important for manufacturers to utilise colours as a way of making their medical devices easily recognisable. Colour coding can also improve patient safety. With this in mind, IPC has certified a range of ISO 10993 pigments for use in medical devices and implants for up to 28 days.

At IPC, our range of pigments are compounded into a wide variety of medical polymers in our ISO 13485 accredited facility which provides many benefits including:

- Bespoke in-house colour matching services in our colour (matching) laboratory
- Colour matching services to customer provided sample as well as International Colour Systems (Pantone, RAL, Munsell, etc.)
- Short lead times for coloured compounds
- Low minimum order quantities
- Rapid Regulatory support – Declarations, COA & COC
- Manufactured in our ISO 13485 environment

IPC – Innovative Polymer Compounds manufacture medical polymer compounds with our own range of ISO 10993 pigments.

With our in-house colour matching laboratory, we develop solutions that meet the specific requirements of our customers' applications.



## Osseoconductive — Polymer Compounds

Osseointegration refers to the direct connection between the living bone and an implant that provides structural, load bearing support.

IPC – Innovative Polymer Compounds manufactures implantable grade polymer compounds for a wide range of implantable applications such as Orthopaedic, Maxillofacial, Cranial and Dental.

### Osseoconductive additives

At IPC – Innovative Polymer Compounds, we compound a range of Osseoconductive additives to provide our customers with implantable grade compounds capable of integrating inside the body.

- Additives that go into our Medical Polymer Compounds include Hydroxyapatite and Beta TCP
- Implantable grade Compounds with Metal replacement polymers such as PEEK, PPSU, etc.

- Implantable grade Compounds with Bioresorbable polymers such as PLA, PCL, PLGA, PLDL, etc.
- Applications include Orthopaedic, Maxillofacial, Cranial applications, Dental, etc
- Minimum order quantities for Medical Polymer Compounds are 1-5kg depending upon the grade
- Rapid Regulatory support – Declarations, COA & COC
- Manufactured in our ISO 13485 certified environment

Working closely in the sector, we understand when it comes to implantable polymer compounds, there is no one size fits all solution. Through consistent and open collaboration, IPC produces the most suitable polymer compounds to meet the specific requirements for Osseoconductivity.



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## Medical 3D Printing — Polymer Compounds

Medical 3D Printing is an emerging and growing industry, increasingly it is being used in medical research and hospitals around the world. The benefits include being able to produce in-house functional parts that are readily available at low cost. In addition, the parts produced can be bespoke meeting the specific requirements of the patient. Medical 3D applications include dental implants, maxillofacial and cranial applications.

Manufactured in our ISO 13485 accredited facility, our Medical Polymer Compounds are converted into 3D filaments for use in Medical 3D Printing applications. Minimum order quantities are between 1-25kg depending on the material type.

**Additives used in these compounds include:**

- Osseoconductive – Hydroxyapatite, Beta-TCP
- ISO 10993 Pigments
- Radio-pacifiers – BaSO<sub>4</sub>, BiO<sub>2</sub> (CO<sub>3</sub>), BiClO, Tungsten

We also supply our compounds in a powder form for Binderjet 3D printing.

Through our ISO 9001 & 13485 quality management system, we offer our customers rapid regulatory support by providing regulatory declarations, COA & COC with every order.



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## Contacts

For further information, please contact our team, we look forward to assisting you.

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