

Benefits

Proven biocompatibility

- meets certain requirements of ISO 10993-1

No Plasticizer intentionally added

Low extractables

Sterilizable

Kink resistance

- for the prevention of tube blockages

Chemical resistance

- resistance to lipids, cleaning and disinfectant agents

Microbe resistance

- resists the growth of algae, fungi, mold and bacteria

Clarity

- provides enhanced visual observation
- can be made radio opaque with barium sulphate

Patient comfort

- high Moisture Vapor Transmission Rate (MVTR) for comfortable gowns, linens, drapes and breathable wound dressings

Excellent tear, wear, stain, and abrasion resistance

- stands up to your demanding application

Excellent strength and elastic properties

- even at minimal wall thicknesses

Elastic memory

- maintains tension
- unlikely to leak at joints



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Thermoplastic Polyurethanes

*High performance elastomers
for medical applications*



Medical Grades and Properties

Texin® Grade	Hardness	Process	100% Modulus (MPa)	Tensile Strength (MPa)	Tear Strength (kN/M)	Tg (°C)	Vicat (°C)	Flex Modulus 23°C (MPa)	Taber Abrasion (mg loss, H-18 wheel)	Clarity
Texin® RxT70A	70A	IM/EX	3.4	26	60	-57	75	14	7	Good
Texin® RxT85A	85A	IM/EX	5.5	37	88	-46	80	27	30	Excellent
Texin® RxT90A	90A	IM/EX	7.6	41	136	-44	106	41	25	Excellent
Texin® RxT50D	50D	IM/EX	14	48	131	-27	128	114	75	Excellent
Texin® RxT65D	65D	IM/EX	25	52	210	-10	138	421	75	Excellent
Texin® RxS285	85A	IM/EX/BF	5.3	38	88	-42	91	28	35	Excellent

IM = Injection Molding, EX = Extrusion, BF = Blown Film

Applications

- *Thin walled, flexible tubing*
- *Catheters*
- *Connectors, luers, and stopcocks*
- *Films and fabric coatings*
- *Component housings*
- *Soft touch grips*
- *Healthcare devices*
- *Wearables*

Biocompatibility

- These grades meet certain biocompatibility test requirements of ISO 10993-1: "Biological Evaluation of Health Care Devices" for categories including (1) skin contact (2) up to 24 hours contact with circulating blood, tissue, bone, and dentin, and (3) up to 30 days contact with mucosal membrane, compromised surfaces, and blood path, indirect.
- These grades shall not be considered candidates for applications that exceed the requirements above unless Covestro explicitly agrees, in writing.

Sterilization

- Ethylene oxide gas
- Gamma irradiation*
- Dry heat
- E-beam

***Gamma irradiation may cause color shift**

NOTE: Do not use steam autoclaving or boiling water methods for sterilization.

For more information on Covestro TPU, please contact us at:

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