

# Texin®

## HIGH-PERFORMANCE THERMOPLASTIC POLYURETHANES FOR MEDICAL APPLICATIONS

### DISCOVER THE BENEFITS OF TEXIN®

- Proven Biocompatibility
  - o Meets certain requirements of ISO 10993-1
- No Plasticizer Intentionally Added
- Low Extractables
- Sterilizable
- Kink Resistance
  - o For the prevention of tube blockages
- Chemical Resistance
  - o Resistance to lipids, cleaning and disinfectant agents
- Microbe Resistance
  - o Resists the growth of algae, fungi, mold and bacteria
- Clarity
  - o Provides enhanced visual observation – can be made radio opaque with barium sulphate
- Patient Comfort
  - o High Moisture Vapor Transmission Rate (MVTR) for comfortable gowns, linens, drapes and breathable wound dressings
- Excellent Tear, Wear, Stain and Abrasion Resistance
  - o Stands up to your demanding application
- Excellent Strength and Elastic Properties
  - o Even at minimal wall thicknesses
- Elastic Memory
  - o Maintains tension
  - o Unlikely to leak at joints

### 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.



## MEDICAL GRADES & 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
RxT70A	70A	IM/EX	3.4	26	60	-57	75	14	7	Good
RxT85A	85A	IM/EX	5.5	37	88	-46	80	27	30	Excellent
RxT90A	90A	IM/EX	7.6	41	136	-44	106	41	25	Excellent
RxT50D	50D	IM/EX	14	48	131	-27	128	114	75	Excellent
RxT65D	65D	IM/EX	25	52	210	-10	138	421	75	Excellent
RxT76D	76A	IM/EX	29.0	46	257.3	48	133	1467	62	Good
RxS285	85A	IM/EX/BF	5.3	38	88	-42	91	28	35	Excellent
RxS292	92A	IM/EX/BF	9.7	40	129	-15	88	73.1	27	Excellent

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