



Texin® RxT70A

TPU

Covestro Deutschland AG

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
Melt Flow Index, MFI	32	g/10min	ISO 1133
MFI temperature	200	°C	-
MFI load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Flexural Modulus (23°C)	14.5	MPa	ISO 178
Stress at 100% Elongation	3.4	MPa	ISO 527
Stress at 300% Elongation	5.2	MPa	ISO 527
Tear strength	60.5	kN/m	ISO 34-1
Shore Hardness A (15s)	70	-	ISO 868
Tensile Strength	25.5	MPa	ISO 37
Strain at Break	770	%	ISO 37

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature A	75	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1070	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	82 - 93	°C	-
Pre-drying - Time	≥2	h	-
Processing humidity	≤0.03	%	-
Melt temperature	188 - 199	°C	-
Mold temperature	16 - 38	°C	-
Zone 1	182 - 193	°C	-
Zone 2	188 - 199	°C	-
Zone 3	188 - 199	°C	-
Nozzle temperature	191 - 202	°C	-
Screw speed	40 - 80	rpm	-
Injection pressure	41.4 - 103	MPa	-
Back pressure	≤1.4	MPa	-
Holding pressure	24.8 - 82.7	MPa	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	82 - 93	°C	-
Pre-drying - Time	≥2	h	-
Processing humidity	≤0.03	%	-
Melt temperature	191 - 204	°C	-
Feed temperature	182 - 199	°C	-
Zone 1	182 - 204	°C	-
Zone 2	188 - 204	°C	-
Nozzle temperature	188 - 204	°C	-

Characteristics

Processing

Injection Molding, Profile Extrusion, Other Extrusion, Pipe/Tube Extrusion

Special Characteristics

Impact modified, Heat aging stabilized, Sterilizable, Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization

Features

Soft Feel

Chemical Resistance

Radiation Resistance

Certifications

Medical, Biocompatibility ISO 10993, Food approval, Food Contact (FDA)

Applications

Medical