



Texin® RxT90A

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	13	g/10min	ISO 1133
MFI temperature	200	°C	-
MFI load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Flexural Modulus (23°C)	41.4	MPa	ISO 178
Stress at 100% Elongation	7.6	MPa	ISO 527
Stress at 300% Elongation	14.5	MPa	ISO 527
Tear strength	136	kN/m	ISO 34-1
Shore Hardness A (15s)	90	-	ISO 868
Tensile Strength	40.7	MPa	ISO 37
Strain at Break	520	%	ISO 37

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature A	106	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1130	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	93 - 104	°C	-
Pre-drying - Time	≥2	h	-
Processing humidity	≤0.03	%	-
Melt temperature	199 - 210	°C	-
Mold temperature	16 - 38	°C	-
Zone 1	193 - 204	°C	-
Zone 2	196 - 207	°C	-
Zone 3	196 - 207	°C	-
Nozzle temperature	199 - 210	°C	-
Screw speed	40 - 80	rpm	-
Injection pressure	41.4 - 103	MPa	-
Back pressure	≤5.5	MPa	-
Holding pressure	24.8 - 82.7	MPa	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	93 - 104	°C	-
Pre-drying - Time	≥2	h	-
Processing humidity	≤0.03	%	-
Melt temperature	199 - 210	°C	-
Feed temperature	182 - 193	°C	-
Zone 1	193 - 204	°C	-
Zone 2	193 - 204	°C	-
Nozzle temperature	193 - 210	°C	-

Characteristics

Processing

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

Special Characteristics

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

Chemical Resistance

Hydrolysis, Radiation Resistance

Certifications

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

Applications

Medical