

Texin® RxT76D

TPU

Covestro Deutschland AG

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	15	g/10min	ISO 1133
Temperature	230	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Flexural modulus, 23°C	1470	MPa	ISO 178
Stress at 100% elongation	29	MPa	ISO 527
Tensile Strength	46	MPa	ISO 37
Strain at break	280	%	ISO 37
Tear strength	257	kN/m	ISO 34-1
Shore D hardness	76	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	133	°C	ISO 306

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	93 - 104	°C	-
Pre-drying - Time	≥4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	218 - 241	°C	-
Mold temperature	21 - 49	°C	-
Zone 1	216 - 227	°C	-
Zone 2	216 - 232	°C	-
Zone 3	216 - 232	°C	-
Nozzle temperature	218 - 235	°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	≥4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	213 - 227	°C	-
Feed temperature	210 - 227	°C	-
Zone 1	213 - 227	°C	-
Zone 2	213 - 227	°C	-
Nozzle temperature	213 - 227	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Natural Color

Certifications

Medical Grade, Biocompatibility ISO 10993

Applications

Medical

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat, Sterilizable, Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization

Chemical Resistance

Hydrolytically Stable, Radiation Resistance

Regional Availability

North America, South and Central America