



Texin® RxT85A

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	4	g/10min	ISO 1133
MFI temperature	190	°C	-
MFI load	8.7	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Flexural Modulus (23°C)	26.9	MPa	ISO 178
Stress at 100% Elongation	5.5	MPa	ISO 527
Stress at 300% Elongation	9.7	MPa	ISO 527
Tear strength	87.6	kN/m	ISO 34-1
Shore Hardness A (15s)	85	-	ISO 868
Tensile Strength	36.6	MPa	ISO 37
Strain at Break	610	%	ISO 37

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature A	80	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1120	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