

**Texin® 570D**

(TPU+PC)

Covestro Deutschland AG

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Flexural modulus, 23°C	700	MPa	ISO 178
Tensile Strength	40	MPa	ISO 37
Strain at break	130	%	ISO 37
Tear strength	158	kN/m	ISO 34-1
Shore D hardness	70	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Glass transition temperature, 10°C/min	-35	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	59	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	98	°C	ISO 75-1/-2
Vicat softening temperature, A	139	°C	ISO 306

Other properties	Value	Unit	Test Standard
Density	1210	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 121	°C	-
Pre-drying - Time	≥4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	232 - 238	°C	-
Mold temperature	32 - 49	°C	-
Zone 1	221 - 232	°C	-
Zone 2	227 - 238	°C	-
Zone 3	227 - 238	°C	-
Nozzle temperature	227 - 241	°C	-
Screw speed	40 - 80	rpm	-
Injection pressure	69 - 103	MPa	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 121	°C	-
Pre-drying - Time	≥4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	232 - 243	°C	-
Feed temperature	221 - 243	°C	-
Zone 1	216 - 232	°C	-
Zone 2	216 - 238	°C	-
Nozzle temperature	221 - 243	°C	-

**Characteristics****Processing**

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

**Special Characteristics**

High impact or impact modified

**Applications**

Automotive

**Regional Availability**

North America, South and Central America

**Features**

Melt Strength