



Texin® 985A

TPU

Covestro Deutschland AG

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.008	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955
Density, 73 °F	1120	kg/m³	ASTM D 792

Mechanical Properties	Value	Unit	Test Standard
ASTM Data			
Flexural Modulus	26.9	MPa	ASTM D 790
Modulus at 100% Elongation	5.5	MPa	ASTM D 412
Modulus at 300% Elongation	3.2	MPa	ASTM D 412
Shore Hardness A (15s)	85	-	ASTM D 2240
Tear Strength	87.6	kN/m	ASTM D 624
Compression Set , 22 hr @ 73 °F	19	%	ASTM D 395
Compression Set , 22 hr @ 158 °F	80	%	ASTM D 395
Tensile Strength	38.6	MPa	ASTM D 412
Elongation at Break	590	%	ASTM D 412
Taber Abrasion Resistance	30	mg/1000 cycles	ASTM D 3489

Thermal Properties	Value	Unit	Test Standard
ASTM Data			
Glass Transition Temperature	-46	°C	ASTM E 1356
Vicat Temperature	80	°C	ASTM D 1525

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	82 - 93	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	193 - 210	°C	-
Mold temperature	16 - 43	°C	-
Zone 1	182 - 202	°C	-
Zone 2	185 - 204	°C	-
Zone 3	185 - 204	°C	-
Nozzle temperature	188 - 207	°C	-
Screw speed	40 - 80	rpm	-
Injection pressure	55.2 - 103	MPa	-
Back pressure	5.52	MPa	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	190 - 205	°C	-
Feed temperature	182 - 199	°C	-
Zone 1	182 - 204	°C	-
Zone 2	182 - 204	°C	-
Nozzle temperature	188 - 210	°C	-

Characteristics

Processing

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

Delivery form

Natural Color

Chemical Resistance

Hydrolysis

Certifications

Food approval, Food Contact (FDA), NSF Approval