

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.008	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
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 A Hardness	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
<b>Other Standards<sup>S1</sup></b>			
Taber Abrasion Resistance	30	mg/1000 cycles	ASTM D 3489

S: These properties are reported by the producer according standards that are different to our defaults.

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Glass Transition Temperature	-46	°C	ASTM E 1356
Vicat Temperature	80	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1120	kg/m <sup>3</sup>	ASTM D 792

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

**Certifications**

Food contact, Food approval FDA 21 CFR, Drinking water contact NSF 61

**Texin® 985A**

TPU

Covestro Deutschland AG

**Delivery form**

Natural Color

**Regional Availability**

North America

**Chemical Resistance**

Hydrolytically Stable