



Turcon® T10

SPECIALLY ENGINEERED POLYMER FOR DEMANDING APPLICATIONS

A high grade composition of virgin PTFE compounded with carbon and graphite.

THERMOPLASTIC BASE

PTFE

COLOUR

Black

*) The Colour of the material may have variations in shading.

PROJECTED SERVICE TEMPERATURES

Minimum* -200°C
Maximum* +260°C

*) Maximum and minimum service temperature are given only as indication and can vary strongly on product shape and application conditions.

TYPICAL APPLICATIONS

For hydraulic and pneumatic & linear motion in lubricating and non-lubricating fluids.

Slow rotary service in lubricating fluid. High extrusion resistance.

BAM tested.

INDUSTRY SPECIFICATION / ASTM CALLOUTS

ASTM callouts not specified.

1*) Material is approved according to ASTM testing
2*) Material was tested independent of ASTM methods.
Results are only to be considered as similar.

ADDITIONAL CODES

T101N, T102, T102V, T10E, T10E7, T10EC, T10EH, T10EP, T10FE, T10FT, T10H, T10H1, T10HD, T10HH, T10HM, T10J3, T10N, T10N7, T10N8, T10N9, T10NA, T10NC, T10NE, T10NG, T10NK, T10S, T10SD, T10SH, T10SL, T10SM, T10SX, T10T, T10V, T10V8

MATERIAL REFERENCE

None



PROPERTIES SPECIFICATION

Test Criteria*	Test Conditions	Unit	Test Specification	Requirements
Density	+23°C	g/cm ³	ASTM D 792	2.07 +0.03/-0.02
Ball Indention Hardness	+23°C	MPa	ISO 2039-1	min. 34
Tensile Stress @ Break	+23°C	MPa	ASTM D 4894	min. 15.0
Elongation @ Break	+23°C	%	ASTM D 4894	min. 150

TYPICAL ENGINEERING PROPERTIES

Test Criteria*	Test Conditions	Unit	Test Specification	Typical Value**
Density	+23°C	g/cm ³	ASTM D 792	2.07
Ball Indention Hardness	+23°C	MPa	ISO 2039-1	45
Hardness	+23°C	Shore D	N/A	64

Mechanical Properties				
Tensile Stress @ Break	+23°C	MPa	ASTM D 4894	20.0
Modulus 100%	+23°C	N/A	ASTM D 4894	N/A
Elongation @ Break	+23°C	%	ASTM D 4894	185
Deformation under Load	+23°C 23°C - 24h - 13.8MPa	%	ASTM D 621	4.10
Creep	+23°C 23°C - 24h - 13,8MPa - 1.5h	%	ASTM D 621	2.60

Thermal Properties				
Coefficient of Linear Expansion	+25°C - +125°C	mm/mm/°K	ASTM E 831	8E-5

Miscellaneous Properties				
Surface Resistivity	+23°C 23° C	Ohm	DIN 53 482	2E+5
Volume Resistivity	+23°C 23° C	Ohm x cm	DIN 53 482	4E+4

* All tests were carried out on standard samples. Values can vary on final product.
 ** Typical values are given only as indication and actual results may vary depending on material batch.
 Time within () means the test has been performed after that duration. For e.g. (25H) means test was performed after 25H.
 N/A: Value is not available.

