



Engineering Data

Turcon[®] T12

Material

A high grade composition of virgin PTFE compounded with carbon.

Colour

Black.

The colour of the material may have variations in shading.

Property	Test Conditions	Standard	Unit	Typical Value
General				
Specific Gravity	23°C	ASTM D 792	g/cm ³	2.08
Ball Indentation Hardness *)	23°C	ISO 2039-1	MPa	42
Shore D	23°C	ASTM D 2240	Shore D	66
Mechanical				
Tensile Stress @ Break	23°C	ASTM D 4894	MPa	23
Tensile Elongation @ Break	23°C	ASTM D 4894	%	215
Deformation under Load	23°C - 24h – 13.8 MPa	ASTM D 621	%	3.7
Creep	23°C-24h-13.8 MPa-1.5h	ASTM D 621	%	2.2
Thermal				
Coefficient of Linear Expansion	-75°C - +15°C	ASTM E 831	mm/mm/°K	9E-5
Coefficient of Linear Expansion	+15°C - +25°C	ASTM E 831	mm/mm/°K	2E-4
Coefficient of Linear Expansion	+25°C - +125°C	ASTM E 831	mm/mm/°K	1E-4
Miscellaneous				
Surface Resistivity	23°C	DIN 53482	Ohm	-
Volume Resistivity	23°C	DIN 53482	Ohm x cm	-

*) Only used in Europe

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