



Engineering Data

Turcon[®] T42

Material

A high grade composition of virgin PTFE compounded with Turcon[®], glass fibre and lubricant.

Colour

Grey to blue.

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	2.23
Ball Indentation Hardness *)	23°C	ISO 2039-1	MPa	38
Shore D	23°C	ASTM D 2240	Shore D	62
Mechanical				
Tensile Stress @ Break	23°C	ASTM D 4894	MPa	27
Tensile Elongation @ Break	23°C	ASTM D 4894	%	275
Deformation under Load	23°C - 24h – 13.8 MPa	ASTM D 621	%	6.1
Creep	23°C-24h-13.8 MPa-1.5h	ASTM D 621	%	4.4
Thermal				
Coefficient of Linear Expansion	-75°C - +15°C	ASTM E 831	mm/mm/°K	1E-4
Coefficient of Linear Expansion	+15°C - +25°C	ASTM E 831	mm/mm/°K	3E-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	6E+15
Volume Resistivity	23°C	DIN 53482	Ohm x cm	1E+16

*) Only used in Europe

Reg. No. T42 Version 2, 2015-10-26

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