

Datasheet
PTFE (TEFLON)

MATERIAL: G 400	POLYMER: Teflon
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Physical properties	Unit	Value	Standard
Hardness	° Shore D	51-60	ASTM D2240
Tensile strength	N/mm ²	25-31	ASTM D1457
Elongation at break	%	300-400	ASTM D1457
Compressive strength at 1% deformation	N/mm ²	4-5	ASTM D695
Deformation under load at room temp. 24 hours at 13,7 N/mm ²	%	14-17	ASTM D621
Permanent deformation as above after Releasing of 24 hours at room temp.	%	7-8	ASTM D621
Deformation under load at 260°C 4 hours at 4,1 N/mm ²	%	30-32	ASTM D621
Permanent deformation as above after releasing of 24 hours at room temp.	%	17-19	ASTM D621
Impact strength IZOD	J/m	153	ASTM D256
Coefficient of friction (dynamic)		0,06	
Wear factor (K)	cm ³ x min ----- x 10 ⁻¹ Kg x mxh	-29000	
PV Limit	at 3 m/min at 30 m/min at 300 m/min	N m ----- x ----- mm ² min	2,4 4,2 5,7
Thermal			
Service Temperature min/max	°C	-200/+260	
Thermal expansion coefficient (linear) 25 + 100°C	10 ⁻⁵ ----- K	12 13	ASTM D696
Colour		White	
Electrical	3	1	4
Dielectric Strength (specimens of 0,5 mm of thickness)	kv/mm	20-40	ASTM D149
Volume Resistivity	Ω x cm	10 ¹⁸	ASTM D256
Surface Resistivity	Ω	10 ¹⁷	ASTM D256