JB Rubber & Industrie BV

PTFE sheet

100% PTFE

Properties	Norm	Value	Unit
Mechanical properties			
Hardness shore D	DIN 53 505	52 – 60	Sh. D.
Ball pressure hardness	DIN 53 456	23 – 28	N/mm²
Tensile strength (23°C)	DIN 53 455	25 – 42	N/mm²
Elongation at break (23°C)	DIN 53 455	250 – 400	%min
Tensile modulus	DIN 53 457	400 – 800	N/mm²
PV – limit 3m/min	--	2,50	N.M / mm².min
PV – limit 30m/min	--	3,90	N.M / mm².min
PV – limit 300m/min	--	5,50	N.M / mm².min
Coëff. of friction – statical	--	0,14	--
Coëff. of friction v-steel – dynamic	--	0,10	--
Diametric shrinkage	--	3,0	%
Wear K.10-8	--	78	cm3.min / kg.m.h
Physical properties			
Specific gravity	ASTM D4894	2,170	g/cm³
Water absorption	DIN 53 495	0,0	%
Deformation after 24h at 23°C – 15N/mm²	ASTM D621	16,00	%
Deformation after 24h at 260°C – 4N/mm²	ASTM D621	7,00	%
Compr. strength at 1% deformation (23°C)	DIN 53 454	4,30	N/mm²
Electrical properties			
Dielectric strength	DIN 53 481	50 – 80	KV/mm
Thermal properties			
Coefficient of thermal expansion (20-150°C)	--	12	1/K.10-5
Coefficient of thermal expansion (150-260°C)	--	16	1/K.10-5
Thermal conductivity (23°C)	DIN 52 612	0,23	W/K.m
Maximum Continuous operating temperature	--	250	°C
Minimum Continuous operating temperature	--	**-200**	**°C**