



MATERIAL DATASHEET

(Revision 02-09-2021)

GENERAL PROPERTIES

Compound name:	NDS-225
Compound description:	PTFE + 25% carbon
Color:	Dark grey
Operating temperature range:	-190°C to +315°C
Approvals/certifications:	n/a

PHYSICAL PROPERTIES

Property	Specified	Test result	Unit	Standard
Hardness	-	63	Shore D	-
Specific gravity	2,20+/-0,02	2.10	g/cm ³	ASTM D 792
Tensile strength CD	≥ 14	-	N/mm ² (MPa)	ASTM D 638
Elongation at break CD	≥180	-	%	ASTM D 638
Deformation under load (140 Kg/cm ² per 24 hours at 23°C)	5.0-6.0	-	%	ASTM D 621
Permanent deformation (24 hours at 23°C)	1.8-2.2	-	%	ASTM D 621
Coefficient of linear thermal expansion (T=25-100°C)	7.0-12.0	-	10 ⁻⁵ /°C	ASTM D 696
Volume resistivity	10 ⁴	-	Ω * cm	ASTM D 257
Coefficient of dynamic friction	0.11	-	-	ASTM D 1894 – 78
Wear coefficient (PV=100 (kg*m)/(cm ³ /min))	30-40	-	(cm ³ *min)/ (kg*m*h)*10 ⁻⁸	

*In normal conditions: +23°C/50% relative humidity
CD: Cross Direction*

Disclaimer

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