

MATERIAL DATASHEET

(Revision 20-09-2023)

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/cm3	ASTM D 792	
Tensile strength CD	≥14	-	N/mm2 (MPa)	ASTM D 638	
Elongation at break CD	≥180	-	%	ASTM D 638	
Deformation under load (140 Kg/cm² 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	104	-	Ω* cm	ASTM D 257	
Coefficient of dynamic friction	0.11	-	-	ASTM D 1894 – 78	
Wear coefficient (PV=100 (kg*m)/(cm³/min))	30-40	-	(cm3*min)/ (kg*m*h)*10 ⁻⁸		

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

Disclaimer

Disclaimer
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