Technical Specification Sheets

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Chemical Designation
PTFE (Polytetrafluorethylene)

Colour
grey

Density
2.56 g/cm^3

Main features
- very good slide and wear properties
- low static friction
- high dimensional stability
- low outgassing
- very good thermal stability
- good chemical resistance

Target Industries
- aircraft and aerospace technology
- cryogenic engineering
- vacuum technology
- propulsion technology

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	50 mm/min	13	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)	1 mm/min	2300	MPa	DIN EN ISO 527-1	
Elongation at break (tensile test)	50 mm/min	20	%	DIN EN ISO 527-1	
Shore hardness	Shore D	67		DIN EN ISO 868	
Coefficient of friction		0,14 - 0,22		-	
Wear rate		1 - 10	10^{-6} mm^3/Nm	-	

Thermal properties	parameter	value	unit	norm		comment
Service temperature	long-term	260	°C	-	1)	(1) Found in public sources. Individual testing regarding application conditions is mandatory. (2) Expansión térmica eje XY (3) Expansión térmica eje XY (4) Thermal expansion XY axis
Thermal expansion (CLTE)	23-100°C	53	10^{-6} K^{-1}	DIN EN ISO 11359-1;2	2)	
Thermal expansion (CLTE)	50-200°C	55	10^{-6} K^{-1}	DIN EN ISO 11359-1;2	3)	
Thermal expansion (CLTE)	100-150°C	52	10^{-6} K^{-1}	DIN EN ISO 11359-1;2	4)	

Other properties	parameter	value	unit	norm		comment
Water absorption	24h / 96h (23°C)	0,003 / 0,016	%	DIN EN ISO 62		(1) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.
Outgassing in high vacuum		passed		ECSS-Q-70-02		
Flammability (UL94)	corresponding to	V0		DIN IEC 60695-11-10;	1)	