F04 -PTFE+carbografite

Physical - Mechanical

PROPERTIES	UNIT	Method	DATA - MOULDED
Density	g/cm³	ASTM D792	2,05- 2,11
Hardness - Shore D	/	ASTM D2240	≥ 62
Tensile Strength - CD	N/mm²	ISO 527 v = 50mm/min microtensile die	≥ 14
Elongation at break - CD	%	ISO 527 v = 50mm/min microtensile die	≥ 75
Compressive Strength at 1% Deformation – CD*	N/mm²	ASTM D695	≥ 7
Deformation under Load at Room Temperature After 24 Hours at 13,7 N/mm2 – CD*	%	ASTM D621	≤ 7
Permanent Deformation Under Load After 24 Hours of Rest at Room Temperature – CD*	%	ASTM D621	≤ 5

Tribological

PROPERTIES	UNIT	Method	DATA - MOULDED
Dynamic coefficient of friction	/	ASTM D1894 ASTM D3702	0,012 – 0,25
Wear factor K	/	ASTM D3702	0,010 – 0,020

Thermal

PROPERTIES	UNIT	Method	DATA - MOULDED
Service Temperature (min - max)	°C	/	- 200 / + 260
Thermal Expansion Coefficient (Linear) 25 – 100°C	10^{-5}(mm/mm)/ °C	Similar to ASTM D696	10 - 12

Electrical

PROPERTIES	UNIT	Method	DATA - MOULDED
Volume Resistivity	Ω • cm	ASTM D257	10^4
Surface Resistivity	Ω	ASTM D257	10^4

*CD=Cross Direction

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as ossible and useful advice. Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.

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