

PTFE carbon 25% 62 Shore D black

Filled Polytetrafluorethylene (25% carbon)

Mechanical, tribological, thermal and electrical properties

Material code: 0805G

Mechanical properties	Standard	Unit	Data-Moulded
Density	ASTM D792	g/cm ³	2,05- 2,11
Hardness - Shore D	ASTM D2240	/	≥ 62
Tensile Strength - CD*	ISO 527 v = 50mm/min microtensile die	N/mm ²	≥ 14
Elongation at Break - CD*	ISO 527 v = 50mm/min microtensile die	%	≥ 75
Compressive Strength at 1% Deformation - CD*	ASTM D695	N/mm ²	≥ 7
Deformation under Load at Room Temperature After 24 Hours at 13,7 N/mm ² - CD*	ASTM D621	%	≤ 7
Permanent Deformation Under Load After 24 Hours of Rest at Room Temperature - CD*	ASTM D621	%	≤ 5
Tribological properties	Standard	Unit	Data-Moulded
Dynamic Coefficient of Friction	ASTM D1894 ASTM D3702	/	0,12 - 0,25
Wear Factor K	ASTM D3702	/	0,01 - 0,02
Thermal properties	Standard	Unit	Data-Moulded
Service Temperature (Min-Max)	/	°C	- 200 / + 260
Thermal Expansion Coefficient (Linear) 25 - 100 °C	Similar to ASTM D696	10 ⁻⁵ (mm/mm)/°C	10 - 12
Electrical properties	Standard	Unit	Data-Moulded
Volume Resistivity	ASTM D257	Ω • cm	10 ⁴
Surface Resistivity	ASTM D257	Ω	10 ⁴

*CD=Cross Direction