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PTFE carbon 25% 62 Shore D black Polytetrafluorethylene

Material Code: 0805G

Carbon filled PTFE grades benefit from improved compressive strength and being carbon a conductive filler, offers good thermal and electrical conductivity. Excellent resistance to load with low coefficient of friction and high wear resistance an improvement if compared to virgin PTFE. Carbon filled PTFE offers enhanced chemical resistance with excellent load carrying properties combined with low friction and high wear resistance. Suitable for wet operating conditions and for contact with corrosive agents.

PHYSICAL - MECHANICAL

Typical Properties	Unit	Method	Data-Moulded
Density	g/cm³	ASTM D792	2,05- 2,11
Hardness – Shore D	/	ASTM D2240	≥ 62
Tensile Strength - CD*	N/mm ²	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/mm ²	ASTM D695	≤ 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			
Typical Properties	Unit	Method	Data-Moulded
	onic	ASTM D1894	
Dynamic Coefficient of Friction	/	ASTM D1894 ASTM D3702	0,12 - 0,25
Wear Factor K	/	ASTM D3702	0,010 - 0,020
THERMAL			
Typical 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			
Typical Properties	Unit	Method	Data-Moulded
Volume Resistivity	$\Omega ullet $ cm	ASTM D257	10 ⁴
Surface Resistivity	Ω	ASTM D257	104
*CD=Cross Direction			

Errors and changes reserved – 2024-02

Note: the data listed here, fall within the normal range of product properties described, but they should not be used to establish specification limits nor used alone as the basis of design. Our supplier assumes no obligation or liability for any advice furnished by it or for results obtained to these products.