

TECHNICAL DATA SHEET

PTFE G458

Properties	Unit	Method	Data - Moulded
PHYSICAL - MECHANICAL			
Density	g/cm ³	ASTM D792	3,75 - 3,85
Hardness - Shore D	/	ASTM D2240	≥ 62
Tensile Strength - CD	N/mm ²	ISO 527 v = 50mm/min microtensile die	≥ 15
Elongation at break - CD	%	ISO 527 v = 50mm/min microtensile die	≥ 100
Compressive strength at 1% deformation - CD	N/mm ²	ASTM D695	10 - 11
Deformation under load at room temperature after 24 hours at 13,7 N/mm ² - CD	%	ASTM D621	≤ 6
Permanent deformation as above after 24 hours of rest at room temperature - CD	%	ASTM D621	≤ 2,5
TRIBOLOGICAL			
Dynamic coefficient of friction	/	ASTM D1894 ASTM D3702	0,15 - 0,30
Wear factor K	/	ASTM D3702	0,010 - 0,030
THERMAL			
Service Temperature (min - max)	°C	/	- 200 / + 260
Thermal expansion coefficient (linear) 25 - 100°C	10 ⁻⁵ (mm/mm)/°C	Similar to ASTM D696	7 - 8
ELECTRICAL			
Surface Resistivity	Ω	ASTM D257	<10 ¹¹

CD=Cross Direction

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible 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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