Material Data Sheet

Material number: 1699-01385

Material type: PTFE 15% Graphite

Color: Black

Physical Properties:

Property	Unit	Test method	Test parameter	Value
Density	g/cm^3	ASTM D792		2,10 - 2,15
Hardness	Shore D	ASTM D2240		≥ 55
Tensile strength CD	N/mm^2	ASTM D4745		≥ 15
Elongation at break	%	ASTM D4745		≥ 170
Compressive strength at 1% deformation	N/mm^2	ASTM D695		≥ 6,5
Deformation under load at 13,7 N/mm^2		ASTM D621	24h / 20°C	≤ 10
Permanent deformation as above after releasing		ASTM D621	24h / 20°C	≤ 6
Dynamic Coefficient of friction (PV = 0,7 N/mm^2 •m/s)		ASTM D3702		0,07 - 0,15
Wear factor (PV = 0,7 N/mm^2 •m/s)	µm/h•N/mm^2 •m•min	ASTM D3702		0,015 - 0,025
Min. Service Temperature	°C			-200
Max. Service Temperature	°C			+260
Thermal expansion coefficient (linear) 25 - 100°C	10^{-5}/°C	ASTM D696		12 - 13

Approvals:

- WRAS (water < 85°C)

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