fluorseals spa®
prodotti in p.t.f.e.

MATERIAL SPECIFICATION

TYPICAL PROPERTIES

PRODUCT

40%GL

(60% virgin ptfe + 40% glass fibres)

Property	Method	Units	Specification
Specific gravity	ASTM D4884	g/ cm ^{3}	2,250 – 2,290
Tensile strength	ASTM D4894	MPa	≥ 10
Elongation	ASTM D4894	%	≥ 100
Hardness	ASTM D2240	Shore D	≥ 63
Deformation under load (14N/mm ^{2}, 24 h at 23°C.)	ASTM D621	%	10 - 12
Permanent deformation (after 24 hrs. Relaxation at 23°C)	ASTM D621	%	5 – 6,5
Coefficient of linear thermal expansion	ASTM D696	10-5/℃	
da 25 a 100°C			4,0 – 7,2
da 25 a 150°C			4,2 – 7,5
da 25 a 200°C			4,6 – 8,5
da 25 a 250°C			5,4 – 10,4
Coefficient of static friction	ASTM D1894		0,17 – 0,19
Coefficient of dynamic friction	ASTM D1894		0,15 – 0,17
Volume Resistivity	ASTM D257	Ohm cm	10 ^{15}
Service Temperature		C°	-200 / +260

Properties:

• Improved compression and wear resistance; excellent chemical stability. Better thermal conductivity and coefficient of friction when combined with Mos2 or Graphite.

Main applications:

• It is the most commonly used filler far dynamic seal applications where both rotating and alternating movements are involved, pneumatic, hydraulic and mechanical parts.

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