fluorseals®

prodotti in p.t.f.e.

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Grumello del Monte, il 31/10/2006

Vs. rif.

Ns. rif.

Cap. int. Versato Euro 1.500.000,00
R.E.A. di Bergamo n. 158562
Cod. Fisc. e R.I. N. 00593110166
P.IVA 00593110166
Cod. identificativo IVA IT0059311016
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MATERIAL SPECIFICATION

(TYPICAL PROPERTIES)

PRODUCT: VIRGIN PTFE

Property	Method	Units	Specification
Specific gravity	ISO 1183	-	2,130 – 2,180
Bulk density	ASTM D4894	g/l	600 – 800
Avg. Part. Size		µm	≥ 500
Tensile strength	ISO 527	MPa	20 - 30
Elongation	ISO 527	%	200 - 300
Hardness	ISO 868	Shore D	55 – 60
Friction Coefficient (Ptfe/Steel)	ASTM D1894	/ /	Static: 0.08 Dynamic: 0,06
Dielectric constant (ε) at 60 Hz to 2GHz	ASTM D150	/	2,1
Dielectric Strength	ASTM D149	KV/mm	20 – 70
Volume Resistivity	ASTM D257	Ohm cm	10^{18}
Service Temperature		C°	-200 / +260

Excellent resistance to continuous service temperatures up to 260° C and, for limited periods, even to higher temperatures; the low temperature resistance of the product allows satisfactory performance at as low –200° C.

Flamability	UL 94	%	VE-0
Melting Point		C°	325 – 335
Water absorption	ASTM D570	%	0,01

Chemical resistance:

PTFE possesses a high inertness towards nearly all known chemicals. It is only attacked by elemental alkali metals, chlorine trifluoride and elemental fluorine at high temperature and pressures.

Solvents resistance:

PTFE is insoluble in all solvents up to temperatures as high as 300° C (572° F). Certain highly fluorinated oils only swell and dissolve PTFE at temperatures close to the crystalline melting point.

FDA Approved
(Code of Federal regulation 21 CFR Ch.1, revised as of April 1, 1999 Edition);
sections 175.105 - 175.300 - 176.170 - 176.180 - 177.1520 - 177.1550 -
177.2600 - 178.3570. "Perfluorocarbon Resins" of the Food and Drug Administration/USA .