

PRODUCT

fluteck[®] S200
(Compression moulded Polyphenylsulfone)

	Property	Method	Units	Specification
Physical	Specific gravity	ASTM D 792	g/cm ³	1,29
	Water absorption 24 h Equilibrium	ASTM D 570	%	0,37 1.2
	Mold shrinkage, along flow	ASTM D 955	%	0,8
	Refractive Index	ASTM D542	-	1,678
Mechanical	Elongation, at yield at break	ASTM D 638	%	7.2 40-90
	Tensile strength, at 23°C	ASTM D 638	MPa	60-75
	Tensile modulus, at 23°C	ASTM D 638	GPa	2-2,5
	Izod impact strength (notched)	ASTM D 256	J/m	690
	Ball hardenss, at 36.5Kg-30sec	ASTM D758	MPa	124
Thermal	Glass temperature	ASTM D3418	°C	220
	Deflection Temperature, 1.8MPa unannealed	ASTM D648	°C	207
	Linear Coefficient of Expansion, 25°C	ASTM D696	10 ⁻⁵ / °C	5.6
	Thermal conductivity at 23°C	DSC	W/mK	0.30
	Flammability	UL94	-	V-0
	Oxygen Index,LOI	ASTM D2863	%	38
Electrical	Dielectric strength 0.025mm 3.18mm	ASTM D149	kV/mm	>200 15
	Volume resistivity	ASTM D257	Ohm*cm	>10 ¹⁵
	Dielectric constant, 3,18mm-60Hz	ASTM D150	-	3.44



fluteck® S200– (Compression molding PPSU)

General features:

- FDA Compliant
- RoHS Compliant
- High Heat Resistance
- Superior toughness and impact strength
- Good Dimensional Stability
- Good Dielectric Properties
- Excellent Hydrolytic Stability
- Very high long-term service Temperature
- Resistance to High Energy Radiation (Gamma)
- Good Chemical Resistance (better than PSU and PEI)
- Radiotranslucent
- Good Sterilizability
- Flame Retardant
- Steam Resistant
- Biocompatible
- Thermoprocessable

Note: The information contained in this technical data sheet are based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your own discretion. We can not guarantee favourable results and assume no liability in connection with its use or the use of the products described. None of this information is to be taken as a licence to operate under, or a recommendations to infringe any existing patents. Prior to any application the above product has to be tested and accepted by the processor.

In order to complete this data sheet, you can require us a DSC / TGA analysis and a microscope picture on our website <http://www.fluteck.com>

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® = registered trademark



Company Quality System UNI EN ISO 9001:2008 cert. CISQ/IIP N°061 first issue 1994

24064 Grumello del Monte Bg Italy - Via Tribolina, 20/22 - Tel. +39 035 4492811 - Fax +39 035 831410 - www.fluorseals.it - info@fluorseals.it