

PRODUCT

**fluteck**<sup>®</sup> **K300**  
(Compression moulded Polyetheretherketone)

	Property	Method	Units	Specification
Physical	Specific gravity	ASTM D 792	g/cm <sup>3</sup>	1,30-1.32
	Water absorption, 24 hours	ASTM D 570	%	0,10
	Mold shrinkage, along flow	ASTM D 955	%	1-1.3
Mechanical	Elongation at break	ASTM D 638	%	≥12,5
	Tensile strength, at Yield (23°C)	ASTM D 638	MPa	≥ 100
	Tensile modulus	ASTM D 638	GPa	3.3 – 4
	Izod impact strength, notched	ASTM D 256	J/m	≥ 85
	Hardness Shore	ASTM D 2240	Shore D	≥ 80
	Hardness Rockwell, M scale	ASTM D 785	Rockwell	≥ 90
	Poisson 's Ratio	ASTM E132	-	0.33
Thermal	Peak Melting Temperature	ASTM D3418	°C	340-343
	Specific heat capacity, at 23°C	DSC	kJ kg <sup>-1</sup> °C <sup>-1</sup>	2.2
	Thermal conductivity, at 23°C	ASTM E1530	W/mK	0.25
	Deflection Temperature, 1.8MPa unannealed	ASTM D648	°C	157
	Relative Thermal Index - electrical	UL746B	°C	260
	Relative Thermal Index - mechanical w/o impact	UL746B	°C	240
	Relative Thermal Index - mechanical w/ impact	UL746B	°C	180
	Flammability	UL94	-	V-0
Electrical	Dielectric Strength , 2mm thk	ASTM D149	kV/mm	22
	Surface Resistivity	ASTM D257	Ohm	10 <sup>17</sup>
	Volume Resistivity	ASTM D257	Ohm*cm	10 <sup>17</sup>



**fluteck® K300 – (Compression molding PEEK)**

**General features:**

- FDA food contact compliant
- High Thermal Conductivity
- Low Coefficient of Friction
- Low Permeability
- Low Abrasion at the counterpart surface of soft metals
- Good Dimensional Stability at high temperature;
- Good Electrical Strength
- Very good Hardness
- Very good Wear Resistance
- Fatigue Resistant
- Flame Retardant
- Good Chemical Resistance
- Heat Sterilizable
- Radiation (Gamma) Resistant
- Radiation Sterilizable
- Radiotranslucent

**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

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