



SWISS MADE PRECISION INSTRUMENTS
100% MANUFACTURED IN SWITZERLAND



info@regine.ch
www.regine.ch

TECHNICAL DATASHEET

PLASTIC TYPE CF

CF, Carbofib (PA66/CF30)

Polyamide 66 reinforced with carbon fibre

Good heat capability, Good Chemical resistance, ESD and Cleanroom safe, Very high rigidity

MECHANICAL PROPERTIES

Flexural modulus + 23° C	17000 Mpa	ASTM D 790
Flexural modulus + 60° C	17000 Mpa	ASTM D 790
Flexural modulus + 90° C	9800 Mpa	ASTM D 790
Flexural modulus + 120° C	8000 Mpa	ASTM D 790
Tensile modulus + 23° C	210 Mpa	ISO 527
Tensile modulus + 60° C	159 Mpa	ISO 527
Tensile modulus + 90° C	134 Mpa	ISO 527
Tensile modulus + 120° C	117 Mpa	ISO 527
Rockwell hardness M	> 100	ASTM D 785
Izod-Impact strenght (notched) + 23° C	70 J7m	ASTM D 256
Charpy-Impact strenght (unnotched) + 23° C	30 Kj/m ²	DIN 53453

THERMAL PROPERTIES

Temp. Of defl. Under load (1.80 Mpa)	256° C	ASTM D 648
Temp. Of defl. Under load (0.45 Mpa)	260° C	ASTM D 648
Vicat softening temperature (50° C/h 50N)	254° C	ISO 306
Coef. Of lin. Therm expansion, normal	2,80 E-5/° C	ASTM D 696
Continous Use Temperature	130° C	20'000 h
Short Time Temperature	190° C	-

ELECTRICAL PROPERTIES

Surface resistivity	10E2 Ohm	100V
Comparative tracking index	< 100 Volts	IEC 112
Decay time	< 0,1 sec.	1000 – 10V

OTHER PROPERTIES

Density	1.28 g/ccm	ISO 1183
Water absorption in water 23° C (24h)	0.60%	ISO 62

Regine Switzerland SA
P.O. Box 264
Viale Serfontana 11
CH-6834 Morbio Inferiore
Switzerland
tel +41 91 683 55 37
fax +41 91 683 93 91

Technical information are provided to the best of Regine Switzerland SA knowledge and average values obtained from laboratory's test made on the material.

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