



SWISS MADE PRECISION INSTRUMENTS  
100% MANUFACTURED IN SWITZERLAND



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## TECHNICAL DATASHEET

### PLASTIC TYPE DG

POM/GF30

Acetal resin reinforced with glass fibre

Good Chemical resistance, Not resistant to strong acids, Good tensile and flexural strength

### MECHANICAL PROPERTIES

Flexural modulus + 23° C	8000 Mpa	ASTM D 790
Flexural modulus + 60° C	5700 Mpa	ASTM D 790
Flexural modulus + 90° C	4500 Mpa	ASTM D 790
Flexural modulus + 120° C	3800 Mpa	ASTM D 790
Tensile modulus + 23° C	83 Mpa	ISO 527
Tensile modulus + 60° C	60 Mpa	ISO 527
Tensile modulus + 90° C	53 Mpa	ISO 527
Tensile modulus + 120° C	45 Mpa	ISO 527
Rockwell hardness M	85	ASTM D 785
Izod-Impact strength (notched) + 23° C	55 J/m	ASTM D 256
Charpy-Impact strength (unnotched) + 23° C	20 KJ/m <sup>2</sup>	DIN 53453

### THERMAL PROPERTIES

Temp. Of defl. Under load (1.80 Mpa)	162° C	ASTM D 648
Temp. Of defl. Under load (0.45 Mpa)	165° C	ASTM D 648
Vicat softening temperature (50° C/h 50N)	156° C	ISO 306
Coef. Of lin. Therm expansion, normal	4.50 E-5/° C	ASTM D 696
Continous Use Temperature	85° C	20'000 h
Short Time Temperature	120° C	-

### ELECTRICAL PROPERTIES

Comparative tracking index	< 600 Volts	IEC 112
Electric strength (2 mm)	<23.0 kV/mm	IEC 243-1

### OTHER PROPERTIES

Density	1.59 g/ccm	ISO 1183
Water absorption in water 23° C (24h)	0.002	ISO 62

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

Regine Switzerland SA declines all responsibility from an improper application or use of the product described in this documents.