

## TECAFORM GF 20

Chemical Designation :  
DIN-Abbreviation:  
Colours, fillers:

Polyoxymethylene (homopolymer)  
POM-H GF 20  
20 % Glasfasern

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### Main features

- | strong
- | easily welded
- | good electrical insulation
- | not resistant to hot water over 60° C
- | very abrasion resistant
- | resistant to cleaning and disinfecting agents
- | difficult to bond

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### Preferred Fields

- | mechanical engineering
- | transport and conveyor technology
- | precision engineering
- | automotive engineering
- | electrical engineering
- | domestic appliance

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### Applications

Insulating profiles, plug strips, levers, plugs, spring elements, insulators, housing parts, snap fit connectors, rollers, wheels, mountings

## Properties

### Mechanical

	dry / moist		standard
Tensile strength at break	55	MPa	DIN EN ISO 527
Elongation at break	10	%	DIN EN ISO 527
Modulus of elasticity in tension	6000	MPa	DIN EN ISO 527
Impact strength 23° C (Charpy)	40	KJ/m <sup>2</sup>	DIN EN ISO 179 (Charpy)
Time yield limit for 1% elongation after 1000 h	28	MPa	
Co-efficient of friction p = 0,05 N/mm <sup>2</sup> v=0,6 m/s on steel, hardened and ground	0,35		

### Thermal

	dry / moist		standard
Glass transition temperature	-60	°C	DIN 53 765
Heat distortion temperature HDT, Method A	158	°C	ISO-R 75 Verfahren A (DIN 53 461)
Heat distortion temperature HDT, Method B	174	°C	ISO-R 75 Verfahren B (DIN 53 461)
Max. service temperature short term	150	°C	
long term	110	°C	
Coefficient of thermal expansion (23-55°C)	6	10-51/K	DIN 53 752

### Electrical

	dry / moist		standard
Dielectric constant (106 Hz)	3,9		DIN 53 483, IEC-250
Dielectric loss factor (106 Hz)	0,005		DIN 53 483, IEC-250
Specific volume resistance	> 10 <sup>15</sup>	Ω *cm	DIN IEC 60093
Surface resistance	> 10 <sup>15</sup>	Ω	DIN IEC 60093
Dielectric strength	19	kV/mm	DIN 53 481, IEC-243, VDE 0303 Teil 2

**Miscellaneous****dry / moist****standard**

Density	1,56	g/cm <sup>3</sup>	DIN 53 479
Moisture absorption (23°C/50RH)	0,1	%	DIN EN ISO 62
Water absorption to equilibrium	1	%	DIN EN ISO 62
Flammability acc. to UL standard 94	HB		
Resistance to hot water, washing soda:	-		
Resistance to weathering	-		

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**(1) Testing of semi-finished products**

The above information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of chemical resistance, of certain properties and the suitability of our products and their applications. Our products are not destined for use in medical and dental implants. Existing commercial patents must be observed. Unless otherwise stated, these values represent averages taken from injection moulding samples, dry as moulded. We reserve the right to make technical alterations.