

**PTFE D05 GF** **15 % clean milled glass fibres +  
1 % pigments + 84 % virgin PTFE**  
 Mechanische, physikalische und thermische Eigenschaften

properties	condition	standard	unit		unit	
colour					turquoise	turquoise
density/specific gravity	23 °C	DIN 53479	kg/m <sup>3</sup>	2210	g/cm <sup>3</sup>	2,21
hardness	23 °C	ISO 868	Shore D	60 ±3	Shore D	60 ±3
ball indentation hardness	23 °C	DIN 53456 H 135/30	MPa	30 ±5	psi	4350 ±725
tensile strength	23 °C	ASTM D 4745-79	MPa	≥ 19	psi	≥ 2755
elongation at break	23 °C	ASTM D 4745-79	%	≥ 255	%	≥ 255
compressive strength	23 °C	DIN 53455	MPa	≥ 8	psi	≥ 1160
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	≥ 1,1	$\frac{J * 10^3}{m * h * K}$	≥ 1,1
coefficient of thermal expansion	25 °C - 200 °C		K <sup>-1</sup> * 10 <sup>-5</sup>	≥ 10	K <sup>-1</sup> * 10 <sup>-5</sup>	≥ 10
coefficient of friction *	23 °C		μ	≥ 0,13	μ	≥ 0,13
minimum service temperature			°C	-200	°F	-328
maximum service temperature			°C	260	°F	500
young's modulus		DIN 53457	MPa		psi	

\* coefficient of friction dry dynamic Steel 16MnCr5 v=0,6m/s; p=0,05 MPa; t=5h

**Chemical Properties**

Resistant to almost all chemicals

Not resistant to halogenides, elemental fluorine, CF<sub>3</sub>, molten alkali metals