

Material Data Sheet

UTECFLON-GR10

General Information

UTECFLON-GR10 is a PTFE (Polytetrafluorethylene) filled with 10% graphite. It has low coefficient of friction and improved conductivity, it is only attacked through strong oxidizing media. It has similar chemical resistance and can be used in the same temperature range as pure PTFE and is especially used in rotary applications, but it should not be used for dynamic applications in water.

Physical properties

Colour:			Grey
Hardness at 20°:	DIN 53505	Shore D	55 - 60
Density:	DIN 53479	g/cm ³	2.25
Tensile strength:	DIN 53504	N/mm ²	> 15
Elongation at break:	DIN 53504	%	> 170
Coefficient of friction (dyn.):	ASTM D1894	μ	0.10
Therm. Exp. Coeff. (lin.) 25-100°:	ASTM D696	10 ⁻⁵ /° C	10
Min. service temperature:		°C	-200
Max. service temperature:		°C	+260

Remark

All test methods and values mentioned above are corresponding to ASTM or DIN standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.