

## Material Data Sheet

# UTECPE-U

## General Information

UTECPE-U is a thermoplastic polymer UHMW-PE (Ultra-High Molecular Weight PolyEthylene). The material has high resistance to abrasive wear, good oxidation resistance, good sliding and anti-adhesive behavior. The minimum service temperature of -200°C makes it an optimal material for low temperature applications. Generally recognized as safe for foodstuff applications.

## Physical properties

Colour:			Natural
Hardness at 20°:	DIN 53505	Shore D	63
Density:	DIN 53479	g/cm <sup>3</sup>	0.93
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	> 40
Elongation at break:	DIN 53504	%	> 50
Modulus of elasticity:	DIN 53457	N/mm <sup>2</sup>	680
Water absorption to saturation:	ASTM D570	%	< 0.01
Min. service temperature:		°C	-200
Max. service temperature:		°C	+80

### 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.