



# MOCOM

## ▪ Tedur® PPS Compounds High performance talent

**Tedur®, the exceptional talent among thermoplastics with excellent chemical resistance and high operating temperatures up to 240 °C, offers several applications in different industries. Due to the low thermal expansion, Tedur® can be used as an ideal replacement for metals, metal alloys and ceramics.**

Tedur® compounds based on linear PPS (polyphenylene sulfide) offer very good dimensional stability, even at temperatures above 200 °C. Depending on the loads it can withstand service temperatures up to 240 °C.

Additionally, Tedur® is characterized by extremely low water absorption as well as very good resistance to chemicals and fuels. Tedur® is a good insulator and has a low dielectric loss factor. With the innovation of Tedur® HTR, a PPS compound achieved the highest tracking resistance (CTI 600) for the first time and can be used in high voltage applications.

A large number of Tedur® materials meet the requirements of V-0 according to UL94 without any addition of flame retardants.

Therefore Tedur® is predestined for the use in the E&E sector and for e-mobility.

There is a wide range of Tedur® materials for automotive, transport, electrical industry, energy, machinery and equipment available. For special applications we gladly develop tailor-made products for you.

### Tedur®: the advantages at a glance

- Very high continuous operating temperatures (up to 240 °C)
- Excellent hydrolysis, chemical and fuel resistance
- Very high rigidity and strength
- Low creep even at higher temperatures
- Flame retardant (V-0), without addition of flame retardant
- Very low water absorption
- Fill levels up to 80 %
- Easy flow

Product series	Material name	Fillers	Tensile modulus ISO 527 [MPa]	Tensile stress ISO 527 [MPa]	Tensile strain ISO 527 [%]	Impact strength 179/1eU [kJ/m <sup>2</sup> ]	Example applications
PPS STANDARD	Tedur® L 9105-1	30 % glass fibers	11.600	170	2	42	Housing, sensor, holder, plug element
	Tedur® L 9107-1 U	40 % glass fibers	15.500	195	1,7	45	Housing, pump impeller, bushing
	Tedur® L 9510-1 U	40 % glass fibers	15.000	155	1,4	30	Bushing, housing
	Tedur® L 9511	45 % glass fibers	16.500	180	1,4	38	Socket, bobbin, housing
	Tedur® L 9200-1 U	60 % glass fibers / minerals	18.700	155	1,2	33	Crank shaft seal, tachograph
	Tedur® L 9217-1 U	65 % glass fibers / minerals	19.400	140	1,2	25	Lamp socket, housing, holder
	Tedur® L 9214-1	65 % glass fibers / minerals	23.000	150	1	25	Holder, housing
PPS FOOD CONTACT	Tedur® L FC 9510-5	40 % glass fibers	15.000	180	2	40	Pump part, water meter
PPS REFLECTOR	Tedur® L 9560	50 % minerals	8.500	74	1,1	17	Reflector
	Tedur® L 9523	60 % glass fibers / minerals	20.500	115	0,8	15	Reflector
PPS WEAR PROTECT	Tedur® L 9401-1	40 % glass fibers 5 % PTFE	14.500	165	1,5	38	Sensor, slide bushing, housing
	Tedur® L 9410-1	45 % glass fibers / minerals	15.000	110	1	20	Sliding components, chain links
	Tedur® L 9422-1	30 % glass fibers 15 % PTFE	12.000	155	2	40	Sliding component, sliding bushing
PPS HIGH TRACKING RESISTANCE	Tedur® HTR PPS 2465 IM 16049	65 % glass fibers / minerals	13.500	85	1,2	16	Plug connector CTI 600 thermal conductive: 1 W/mK
PPS EXTRUSION	Tedur® L PPS 1000 15087	unfilled	2.000	35	35	nb	Pipe profile
	Tedur® L 1300*	unfilled	3.800	80	3	30	Pipe profile
PPS RECYCLATE	Tedur® R 9519	45 % glass fibers	16.000	155	1,5	35	Socket, lamp socket, housing
PPS IMPACT MODIFIED	Tedur® L PPS 2030 IM SB1177-22*	30 % glass fibers	8.200	115	2,7	55	Profiles, housings, energy technology, impact modified
	Tedur® L PPS 2040 IM SB1178-22*	40 % glass fibers	11.000	120	2,5	52	Profiles, housings, energy technology, impact modified

\*development grades

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