



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. In order

to this 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 (MPa) ISO 527	Tensile stress (MPa) ISO 527	Tensile strain (%) ISO 527	IZOD-Impact (kJ/m ²) ISO 180/1U	Example applications
PPS STANDARD	Tedur® L 9105-1	30 % glass fibers	11600	170	38	2	Housings, sensor, holder, plug elements
	Tedur® L 9107-1 U	40 % glass fibers	15000	190	50	1.7	Housing, pump impellers, bushing
	Tedur® L 9510-1 U	40 % glass fibers	14000	180	40	1.5	Bushings, housings
	Tedur® L 9511	45 % glass fibers	16500	180	33	1.4	Socket, bobbins, housing
	Tedur® L 9114-1 S	60 % glass fibers	24000	180	33	1	Pressure vessel, pump housing
	Tedur® L 9200-1 U	60 % glass fibers/ minerals	17000	150	30	1.4	Crank shaft seal, tachograph
	Tedur® L 9217-1 U	65 % glass fibers/ minerals	19000	140	25	1.2	Lamp socket, housing, holder
	Tedur® L 9214-1	65 % glass fibers/ minerals	23000	150	25	1	Holder, housing
PPS FOOD CONTACT / DRINKING WATER	Tedur® L FC 9510-5	40 % glass fibers	15000	180	37	2	Pump parts, water meters
PPS DETECTABLE	Tedur® DET PPS FC 2450 16075	45 % glass fibers/ special filler	14500	–	25	–	Food industry (metal detection)
PPS REFLECTOR	Tedur® L 9560 S	50 % minerals	38500	75	15	1	Reflectors
	Tedur® L 9523	60 % glass fibers/ minerals	20500	180	15	0.8	Reflectors
PPS WEAR PROTECT	Tedur® L 9401-1	40 % glass fibers 5 % PTFE	14500	165	35	1.5	Sensors, slide bushing, housings
	Tedur® L 9410-1	45 % glass fibers/ minerals 15 % PTFE	15000	110	20	1	Sliding components, chain links
	Tedur® L 9422-1	30 % glass fibers 15 % PTFE	12000	155	40	2.4	Sliding components, sliding bushing
PPS E-CONDUCTIVE	Tedur® L 9400-1	15 % carbon fibers	15500	150	16	1	Pump housings, bearing bush
	Tedur® L 9404-3.2 U	30 % carbon fibers	26500	190	28	0.8	Bearing bush, impellers, parts of pumps surface resistance: 100 Ohm
PPS HIGH TRACKING RESISTANCE	Tedur® HTR PPS 2465 IM 16049	65 % glass fibers/ minerals	13500	85	16	1.2	Plug connectors CTI 600 thermal conductive: 1 W/mK
PPS EXTRUSION	Tedur® L PPS 1000 15087	unreinforced	2100	50	1000	20	Pipe profile
PPS RECYCLATE	Tedur® R 9519	ca. 45 % glass fibers	16000	155	30	2.5	Socket, lamp socket, housing

Additional products and information available on request.

MOCOM Compounds GmbH & Co. KG

Mühlenhagen 35 | 20539 Hamburg

T +49 40 78105-720 | sales@mocom.eu

T +49 40 78105-710 | technical@mocom.eu

www.mocom.eu

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