

LUVOCOM® 1301-8349

LUVOCOM®

High-performance compounds

**Polyphenylene sulfide, linear
with PTFE, black**

Physical properties		Test method	Specimen	Units	Typical value
Specific gravity		ISO 1183-3		g/cm ³	1,47
Water absorption	23°C / 24h	ISO 62	MPTS ISO 3167 A	%	<0,2
Linear mould shrinkage		DIN 16742	MPTS ISO 3167 A	%	1,1-1,6
Mechanical properties at 23°C / 50% rh					
Tensile strength	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	MPa	70
Elongation at maximum force	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	%	3,0
Modulus of elasticity	dry, @1 mm/min	ISO 527	MPTS ISO 3167 A	GPa	3,5
Flexural strength	dry, @10 mm/min	ISO 178	MPTS ISO 3167 A	MPa	105
Flexural elongation at max. force	dry, @10 mm/min	ISO 178	MPTS ISO 3167 A	%	3,5
Flexural modulus	dry, @2 mm/min	ISO 178	MPTS ISO 3167 A	GPa	3,5
Charpy impact strength	dry	ISO 179 1eU	80x10x4mm	kJ/m ²	10
Thermal properties					
Continuous service temperature	20.000 h	IEC 60216	MPTS ISO 3167 A	°C	220
Service temperature	during lifetime max. 200h		MPTS ISO 3167 A	°C	240
Electrical properties					
Insulation resistance strip electrode	R25	DIN IEC 60167	MPTS ISO 3167 A	Ω	>10 ¹²
Surface resistance	ROB	DIN IEC 60093	Ronde 60x4mm	Ω	>10 ¹²

Main features



TRIBOLOGICAL

Improved friction and wear behaviour. Optimised for dry running operations. Low warpage, isotropic shrinkage characteristics.

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Recommended processing parameters

Predrying

It is advisable to predry the granulate with a suitable dryer immediately before processing. The granulate may absorb moisture from the environment.

Dryer type	Temperature °C	Drying time in h
Dehumidifying dryer	100 - 140	2 - 4
or	50 - 90	>4

Processing

Zone 1	°C	300 - 320
Zone 2	°C	310 - 330
Zone 3	°C	320 - 340
Nozzle	°C	320 - 340
Mold	°C	150 - 180
Melt temperature	°C	330

In general this product can be processed on conventional injection moulding machines while observing the usual technical guidelines. Any added fibrous materials or fillers may have an abrasive effect. In this case the cylinder and screw should be protected against wear as is usual in the processing of reinforced thermoplastic materials. Lengthy dwell times for the melts in the cylinder should be avoided. Lower the temperatures during interruptions!

Delivery form & storage

Unless indicated otherwise, the material is delivered as 3mm long pellets in sealed bags on pallets. Preferably storage should be effected in dry and normally temperatured rooms.

Additional information

If originally sealed containers are used, it is normally possible to omit the predrying stage. If PTFE containing materials are not predried, an increase in deposits inside the mould may occur. The processing notes provided merely represent a recommendation for general use. Due to the large variety of machines, geometries and volumes of parts, etc., it may be necessary to employ different settings according to the specific application. Please contact us for further information.

