

Polyacetal-copolymer
with PTFE, black

Physical properties		Test method	Specimen	Units	Typical value
Specific gravity		ISO 1183-3		g/cm ³	1,51
Water absorption	23°C / 24h	ISO 62	ISO 3167 A	%	0,18
Linear mould shrinkage		DIN 16742	ISO 3167 A	%	1,7-2,2
Flammability behaviour		UL 94	1/16"		(HB)

Mechanical properties at 23°C / 50% rh

Tensile strength	dry, @50 mm/min	ISO 527	ISO 3167 A	MPa	44
Elongation @Fmax.	dry, @50 mm/min	ISO 527	ISO 3167 A	%	7
Tensile modulus	dry, @1 mm/min	ISO 527	ISO 3167 A	GPa	2,3
Flexural strength	dry, @10 mm/min	ISO 178	ISO 3167 A	MPa	65
Flexural elongation @Fmax.	dry, @10 mm/min	ISO 178	ISO 3167 A	%	9
Flexural modulus	dry, @2 mm/min	ISO 178	ISO 3167 A	GPa	2,1
Impact strength	dry	ISO 179 1eU	80x10x4mm	kJ/m ²	50
Impact strength	-30°C	ISO 179 1eU	80x10x4mm	kJ/m ²	40
Impact strength, notched	dry	ISO 179 1eA	80x10x4mm	kJ/m ²	7
Charpy Impact Strength notched	-30°C	ISO 179 1eA	80x10x4mm	kJ/m ²	5

Thermal properties

Vicat softening temp.	VST A	DIN ISO 306	ISO 3167 A	°C	145
Heat distortion temp.	HDT A	ISO 75	80x10x4mm	°C	85
Continuous service temp.	20.000 h	IEC 60216	ISO 3167 A	°C	100
Service temperature	during lifetime max. 200h		ISO 3167 A	°C	120

Electrical properties

Insulation resistance	strip electrode R25	DIN EN 62631-3-3	ISO 3167 A	Ω	>10 ¹²
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Main features

Improved friction and wear behaviour. Optimised for dry running operations. Sliding-couples with a low friction coefficient. Low warpage.

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Recommended processing parameters

General

Avoid melt temperature above 215°C! Ventilation of machinery is recommended.

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.

Predrying

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

Dryer type	Temperature °C	Drying time in h
Dehumidifying dryer	75	2 - 8
Air-Circulation Dryer	120	2 - 4

Recommended processing parameters

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!

Mold	Nozzle	Zone 3	Zone 2	Zone 1
80 - 120 °C	175 - 200 °C	180 - 200 °C	185 - 205 °C	175 - 190 °C

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.