LUVOCOM[®] 3F PET CF 9780 BK



Polyethylene terephthalate with carbon fibers black

Physical properties		Test method	Specimen	Unito		
Physical properties		restmethod	Specimen	Units	Typical value	
Specific gravity		ISO 1183		g/cm³	1,4	
Water absoption	23°C / 24h	ISO 62	MPTS ISO 3167 A	%	< 0,3	
Mechanical properties at 23°C / 50% rh						
Tensile strength	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	MPa	80	
Elongation at maximum force	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	%	2,5	
Modulus of elasticity	dry, @1 mm/min	ISO 527	MPTS ISO 3167 A	GPa	9	
Flexural strength	dry, @10 mm/min	ISO 178	MPTS ISO 3167 A	MPa	130	
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	8	
Charpy impact strength	dry	ISO 179 1eU	80x10x4mm	kJ/m²	40	
Thermal properties						
Service temperature	during lifetime max. 200h		MPTS ISO 3167 A	°C	125	

Main features

Easy to print. No warping. High z-strength.



Any recommendations made for use of Seller's materials are made to the best of Seller's knowledge and are based upon prior tests and experience of the Seller believed to be reliable; however, Seller does not guarantee the results to be obtained and all such recommendations are non-binding – also with regard to the protection of third party's rights –, do not constitute any representation and do not affect in any way Buyer's obligation to examine and/or test the Seller's goods with regard to their suitability for Buyer's purposes. No information given by the Seller is to be construed in any way as a guarantee regarding characteristics or duration of use, unless such information has been explicitly given as a guarantee.

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Recommended processing parameters

General

In general LUVOCOM® 3F can be processed on conventional extrusion machines while observing the usual technical guidelines. Any added fibrous materials or fillers may have an abrasive effect. In this case the cylinder, screw and die 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!

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	120	2 - 5			
or	80	6 - 8			
Processing					
Zone 1	C°	260 - 300			
Zone 2	C°	260 - 300			
Zone 3	C°	260 - 300			
Nozzle	C°	250 - 290			
Melt temperature	C°	280			

3D Printing parameters may vary from machine to machine. The following settings may be usd as an indication: nozzle temperature: 245 - 270 °C / nozzle material: abbrasion resistant / print bed temperature: > 50 °C / layer thickness: > 0,2mm / printing speed 40 - 60 mm/s. 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.

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

Filaments produced from this material may be wound into standard size spools.

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