

Preliminary data sheet.

LUVOCOM 3F PAHT 9825 NT

Polyamide based material natural color

Physical Properties		Test Method	Specimen	Units	Typical		
Thyologi Proportios			O P35311	C 1 S	Value		
Specific Gravity		ISO 1183	MPTS ISO 3167 A	g/cm³	1,20		
Water Absorption	23 °C / 24 h		MPTS ISO 3167 A	%	<0,3		
Melt Flow Rates	MFR	ISO 1133	pellet	g/10 Min	3,60 3,47		
Melt Volume Rate Linear Mould Shrinkage	MVR VSR 3mm	ISO 1133 DIN 16901	pellet MPTS ISO 3167 A	cm³/10 Min %	0,3-0,5		
Flamability Behaviour	VOIC SITTINI	UL 94	1/16"	-	0,3-0,5		
Mechanical Properties		02 04	1710				
at 23°C/50% rh							
Tensile Strength	σzM	ISO 527	MPTS ISO 3167 A	MPa	85		
Elongation	E _{zM}	ISO 527	MPTS ISO 3167 A	%	3,6		
Modulus of Elasticity	Et	ISO 527	MPTS ISO 3167 A	GPa	3,4		
Flexural Strength	О рМ	ISO 178	MPTS ISO 3167 A	MPa			
Flexural Elongation	ЕЬМ	ISO 178	MPTS ISO 3167 A	%			
Flexural Modulus	E _{3B}	ISO 178	MPTS ISO 3167 A	GPa kJ/m²			
Charpy Impact Strength Charpy Impact Strength	-30°C	ISO 179 1eU	MPTS ISO 3167 A MPTS ISO 3167 A	kJ/m²	NB		
Charpy Impact Strength notche		ISO 179 1eU ISO 179 eA	MPTS ISO 3167 A	kJ/m²			
Charpy Impact Strength notche		ISO 179 eA	MPTS ISO 3167 A	kJ/m²			
Thermal Properties	u 00 0						
Vicat Softening Temp.	VST A	DIN ISO 306	MPTS ISO 3167 A	°C			
Heat Distortion Temp.	HDT A	ISO 75	MPTS ISO 3167 A	°C	90		
Continuous Service Temp.		UL 746B	MPTS ISO 3167 A	°C	120		
Maximum (short term) Use Tem	•			°C	160		
Coefficient of Thermal Expansion	n	DIN 53752		10 ⁻⁵ /K	0,5		
Thermal Conductivity		HOT-DISK	60x60x3 mm	W/mK	0,3		
Electrical Properties							
Insulation Resistance Strip	electrode R ₂₅	DIN/IEC 60167	MPTS ISO 3167 A	Ω	>10 ¹²		
Surface Resistance	Ro	B DIN IEC 60093	Ronde 60x4 mm	Ω	>10 ¹²		
Tribological Properties 22							
Coeff. of Friction μ dyna	mic 15Hz 2	1N DIN 51834	MPTS ISO 3167	N/N			
Coeff. of Friction µ	40mm/s 21N	LuV	MPTS ISO 3167	N/N			

Application Examples

9825

strong and tough parts.

Low influence from moisture and temperature to measures and electrical properties, compared with PA66 Automotive industry, textile- and office machinery, apparatus- and precision engineering.



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Pagammanded Processing In	etructions				
Recommended Processing In	istructions				
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					
(optional)	It is advisable to predry the granulate with a suitable dryer immediately before processing. The granulate may absorb moisture from the air.				
	Dryer type	Temperature°C	Drying time in h		
	Dehumidifying dryer	130	6 to 8		
	Vacuum Dryer	120	4 to 6		
Processing Temperatures					
	Zone 1	°C	260 to 300		
	Zone 2	°C	260 to 300		
	Zone 3	°C	260 to 300		
	Nozzle	°C	250 to 290		
	Mass-Temperature	°C	optimum 280		

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

The filament can be wound into standard size spools.

3D Printing parameters may vary from machine to machine, the following settings can be used as an indication:

Nozzle temperature: 270 - 290 °C Print Bed Temperature: > 50 °C Layer Thickness: >0,1mm

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.

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2/2