

TEST REPORT: HM 250977

Customer	Zemědělské družstvo Haňovice Haňovice 18, 783 21 PLASTY MLADEČ
Order	Obj/15/07/2025/PRI464/I
Samples	3D print string (PA glass reinforced)
Requirements	Gravimetric evaluation of suspended particles

Brno, August 4th, 2025

Results warranted by: Ing. Zlata Vrátníčková
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Gravimetric evaluation of loosed particles

Sample: PA string glass fiber reinforced (1.75 mm), vacuum-packed

Procedure: 100 g of string was rinsed in water in ultrasonic bath for 2 minutes. Then the water with suspended particles was filtered through a 500 μ m sieve and filtered through 50 μ m filter and 5 μ m filter. Both filters were dried and conditioned to constant weight. This procedure was done twice.

Evaluation:

		1st procedure	2nd procedure
sample weight	g	100	100
particles 500-50 μ m	mg	0.07	0.36
particles 50-5 μ m	mg	0.3	0.76
suspended particles 500-50 μ m	weight %	0.00007	0.00036
suspended particles 50-5 μ m	weight %	0.0003	0.00076

String sample for 1st procedure was taken directly from the beginning of spool. Since the sample was vacuum-packed, potential particles could be sucked out. String sample for 2nd procedure was taken after unwinding the spool and resulted in higher amount of suspended particles.

Procedure and measurement by: Denisa Pacalova

Evaluated and reported by: Zlata Vratnickova