

## **TECHNICAL DATA SHEET**

## AquaSys® GP Soluble Support for Additive Manufacturing

Rev 1: 4/20/22

	A D. (A N. T.) O. T.		DENIES :	
FEATURE	ADVANTAGE		BENEFIT	
Temperature Resistance	Stable with build chamber temperature up to 30 °C and prints well at room temp.		Compatible with several thermoplastics including: PLA, PETG	
Water Soluble	Rapidly dissolves in standard tap water at 25 °C.		No additional chemicals/custom dissolution baths are required.	
Adhesion	AquaSys GP has excellent adhesion to a variety of build materials and build plates including glass, PC-ABS, PEI.		Allows the production of more uniform parts with fewer defects.	
Shrinkage	Very low shrinkage		Support does not curl during printing	
Shelf Life	If properly stored, AquaSys ( significant moisture	SP does not pick up	No unique handling or drying is required if properly stored and kept dry. Drying is required at 40-50 °C if material picks up moisture.	
PHYSICAL PR	OPERTIES	TYPICAL VALU	E UNITS	METHOD
24 hour moistu	re absorption	0.3-0.5%	@ 50% RH and 25 °C	
Specific Gravity	у	1.27	g/cm <sup>3</sup>	ASTM D792
Coefficient The	rmal Expansion	4.01E-05	in/in°C	ASTM D696
MECHANICAL	PROPERTIES		UNITS	METHOD
Melt Flow Index	x (230C; 5kg)	45.0	g/10min	ASTM D1238
Tensile				ASTM D638
Modulus		875,000	psi	
Strength		13,000	psi	
Elongation @	Break	2	%	
Flexural				ASTM D790
Modulus		850,000	psi	
Strength		25,000	psi	
Impact (IZOD)				ASTM D256 / D4812
Unnotched		7.9	ft-lbf/in	
Notched		0.25	ft-lbf/in	
	Temperature (0.45 Mpa)	57	°C	ASTM D648
Vicat Softening		71.5	°C	ASTM D1525
	ECIFICATIONS			
	uct Forms: 1.75 mm and 2.85 n	nm filament		
Color is translu				
	rmulated using environmenta	<u> </u>		
	conditions: Extruder 225 – 25			
GENERAL INS	STALLATION, USAGE, AND	CARE OVERVIEW		

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Storage and Preparation: Store AquaSys GP in metallized foil packaging with desiccant. Reseal after use.

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