PROFORM
RAPID PROTOTYPING

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Material Properties			BMF Micro Stereolithography			
Name			HTL	HI TEMP 300-AMB	Tough	
Supplier			BMF	3D Systems	BMF	
Material type			Acrylate	Acrylate	Acrylate	
Base colour			yellow trans / black	red / orange	yellow trans	
			clear	translucent		
Characterisation			high strength and rigidity	hard / high temp	good strength and elongation	
Physical properties	unit	ASTM				
Density	g/cm^3			1.3		
Shore hardness	Shore	D2240	D 81	D 89	D 74.5	
Tensile modulus	MPa	D638M	2397	4000	2655	
Flexural modulus	MPa	D790M	2800	4260	4000	
Tensile strength	MPa	D638M	71.5	81	82.9	
Flexural strength	MPa	D790M	112.9	140	122.4	
Elongation to break	%	D638M	7.8	2.6	14	
Impact resistance (notched)	kJ/m^2	D256A	3	10	1.9 - 2.4	
Glass transition (Tg)	oC	E1545-00	172			
Heat deflection temp @ 0.46 MPa	oC	D648-98c	114	>300	78	
Heat deflection temp @ 1.81 Mpa	oC	D648-98c		300		
Coeff. of linear expansion (0-100 C)	$10^{-4}\ K^{-1}$	E831-00		0.62	1 - 1.5	
Dielectric constant @ (10 GHz)		D150-98	3.45		2.88	
Dielectric strength	kV/mm	D149-97a				
Water absorption	%	D570-98	0.05	0.36	0.28	
Processing			S240	S240	S240	
Minimum wall thickness	mm		0.03	0.03	0.03	
Typical layer thickness	mm		0.01 - 0.04	0.01 - 0.04	0.01 - 0.04	
Build envelope	mm^3		254^3	125x70x196	254^3	
Turnover (typical) #:	days		3 - 7	3 - 7	3 - 7	
Remarks:	# from receipt of correct 3D data