



PK940(v1.0) November 10, 2017

100% Material Declaration Data Sheet for Spartan-7 FTGB196

Average Weight : 0.5980 g

Component	Substance Description	CAS # or Description	% of component	Use in product	Component weight / substance weight (in grams)	Component % of total
Silicon die	Silicon	7440-21-3	100.00		0.017861	2.987%
					0.017861	
Die Attach Material	Silver	7440-22-4	77.50		0.004528	0.977%
	Bismaleimide monomer	trade secret	15.00		0.000876	
	Acrylate monomer	trade secret	7.50		0.000438	
Mold Compound					0.295468	49.409%
	Epoxy Resin	Trade secret	7.50		0.022160	
	Phenol Resin A	9003-35-4	3.00		0.008864	
	Phenol Resin B	Trade secret	3.00		0.008864	
	Silica(Amorphous) A	60676-86-0	67.95		0.200771	
	Silica(Amorphous) B	7631-86-9	15.00		0.044320	
	Metal Hydroxide	Trade secret	3.00		0.008864	
Copper Wire	Carbon black	1333-86-4	0.55		0.001625	
					0.003131	0.524%
	Copper	7440-50-8	98.08		0.003071	
Copper Wire	Palladium	7440-05-3	1.80		0.000056	
	Gold	7440-57-5	0.12		0.000004	
					0.000004	
Solder Ball					0.095009	15.888%
	Tin	7440-31-5	95.50		0.090734	
	Silver	7440-22-4	4.00		0.003800	
Substrate	Copper	7440-50-8	0.50		0.000475	
					0.180689	30.216%
Substrate	Solder mask	trade secret	8.55		0.015458	
	BT Core	trade secret	36.22		0.065446	
Substrate	Continuous Filament Fiber Glass	65997-17-3	12.07		0.021815	
	Gold	7440-57-5	2.63		0.004751	
Substrate	Nickel	7440-02-0	16.17		0.029209	
Substrate	Copper plating	7440-50-8	24.36		0.044010	

Revision History

Date	Version	Description of Revisions
11/10/2017	1.0	Initial Xilinx release.