



PK758 (v1.0) July 24, 2015

100% Material Declaration Data Sheet Spartan®-6 Cu Wire CPG196 Package

Average Weight: 0.132 g

Component	Substance Description	CAS# or Description	% of Component	Use in Product	Component Weight/ Substance Weight (in grams)	Component % of Total
Silicon Die					0.007758	5.877%
	Silicon	7440-21-3	100.00	Main material	0.007758	
Die Attach Material					0.002083	1.578%
	Silver	7440-22-4	77.50	Main material	0.001614	
	Bismaleimide monomer	Trade Secret	15.00	Main material	0.000312	
	Acrylate monomer	Trade Secret	7.50	Main material	0.000156	
Copper Wire					0.000774	0.586%
	Cu	7440-50-8	98.25	Main material	0.000760	
	Pd	7440-05-3	1.75	Dopant	0.000014	
Mold Compound					0.062320	47.212%
	Epoxy Resin	Trade secret	7.50	Main material	0.004674	
	Phenol Resin A	9003-35-4	3.00	Main material	0.001870	
	Phenol Resin B	Trade secret	3.00	Main material	0.001870	
	Silica (Amorphous) A	60676-86-0	67.95	Filler	0.042346	
	Silica (Amorphous) B	7631-86-9	15.00	Filler	0.009348	
	Metal Hydroxide	Trade secret	3.00	Flame retardant	0.001870	
	Carbon black	1333-86-4	0.55	Color agent	0.000343	
Solder Balls					0.020328	15.400%
	Tin (Sn)	7440-31-5	98.50	Main material	0.020023	
	Silver (Ag)	7440-22-4	1.00	Main material	0.000203	
	Copper (Cu)	7440-50-8	0.50	Main material	0.000102	

© Copyright 2015 Xilinx, Inc. XILINX, the Xilinx logo, Virtex, Spartan, ISE, and other designated brands included herein are trademarks of Xilinx in the United States and other countries. All other trademarks are the property of their respective owners

Component	Substance Description	CAS# or Description	% of Component	Use in Product	Component Weight/ Substance Weight (in grams)	Component % of Total
Substrate					0.038737	29.346%
	Au	7440-57-5	1.453	Main material	0.000563	
	Ni	7440-02-0	14.102	Main material	0.005463	
	Cu plating	7440-50-8	32.562	Plating	0.012613	
	Continuous Filament Fiber Glass	65997-17-3	11.105	Glass Fiber	0.004302	
	BT Core	26875-67-2 21645-51-2	33.316	Core	0.012906	
	Solder Mask	147-14-8 7727-43-7 14807-96-6 7631-86-9 112-15-2 34590-94-8 103429-90-9 64742-94-5 25551-13-7 trade secret	7.463	Solder mask	0.002891	

Revision History

The following table shows the revision history for this document.

Date	Version	Description of Revisions
7/24/15	1.0	Initial Xilinx release

Notice of Disclaimer

Xilinx regards this materials data to be correct but makes no guarantee as to its accuracy or completeness, including, but not limited to, with respect to its compliance with applicable environmental laws and regulations. Xilinx subcontracts the production, test and assembly of hardware devices to independent third-party vendors and materials suppliers ("Contractors"). All data provided hereunder is based on information received from Contractors. Xilinx has not independently verified the accuracy or completeness of this information which is provided solely for your reference in connection with the use of Xilinx products.