

Supplementary information

Table S1. Backward elimination of terms of regression for Mixtures of thermal conductivity versus X_1 (amount of epoxy resin, wt.%), X_2 (amount of talc, wt.%), X_3 (amount of BN cluster particles, wt.%), and X_4 (amount of ZnO, wt.%)

	-----Step 1-----		-----Step 2-----		-----Step 3-----		-----Step 4-----		-----Step 5-----	
	Coef	P-Value	Coef	P-Value	Coef	P-Value	Coef	P-Value	Coef	P-Value
X_1	1.193	*	1.119	*	1.184	*	0.905	*	0.353	*
X_2	7.03	*	7.01	*	7.40	*	4.35	*	0.866	*
X_3	16.66	*	16.59	*	16.04	*	16.19	*	16.16	*
X_4	4.89	*	0.87	*	0.28	*	-0.958	*	0.073	*
$X_1 \cdot X_2$	-11.65	0.058	-11.39	0.069	-12.19	0.059	-6.93	0.198		
$X_1 \cdot X_3$	-15.98	0.006	-15.47	0.008	-14.96	0.011	-15.74	0.010	-14.93	0.014
$X_1 \cdot X_4$	-6.58	0.191								
$X_2 \cdot X_3$	-21.38	0.002	-22.08	0.002	-21.74	0.003	-16.48	0.006	-13.91	0.012
$X_2 \cdot X_4$	-9.92	0.099	-9.66	0.116	-9.40	0.138				
$X_3 \cdot X_4$	-7.71	0.131	-7.20	0.166						
S		0.0235346		0.0243499		0.0253356		0.0265574		0.0272224
R-sq		98.97%		98.81%		98.61%		98.37%		98.17%
R-sq(adj)		98.21%		98.08%		97.92%		97.71%		97.60%
R-sq(pred)		93.89%		93.29%		92.81%		91.69%		91.07%
Mallows'		10.00		9.92		10.22		11.10		11.41
Cp										

α to remove = 0.1