

Online Material

Appendixes

Table S1. ANOVA for the effects of the step-wise (0 to 18 cm) crack propagation on elastic parameters.

		Sum of Squares	<i>Df</i>	Mean Square	<i>F</i>	Sig.
Longitudinal Specific MOE (E/ρ) obtained from vibration in <i>LT</i> plane	Between Groups	2.421	3	0.807	0.015	0.997
	Within Groups	3568.704	68	52.481		
	Total	3571.125	71			
Longitudinal Specific MOE (E/ρ) obtained from vibration in <i>LR</i> plane	Between Groups	968.485	3	322.828	4.625	0.005**
	Within Groups	4746.016	68	69.794		
	Total	5714.501	71			
G_{LT} (GPa) obtained from vibration in <i>LT</i> plane	Between Groups	0.217	3	.072	0.636	0.594
	Within Groups	7.740	68	.114		
	Total	7.957	71			
G_{LR} (GPa) obtained from vibration in <i>LR</i> plane	Between Groups	4.114	3	1.371	3.844	0.013**
	Within Groups	24.255	68	0.357		
	Total	28.368	71			

* Significant for $\alpha = 0.05$. ** Significant for $\alpha = 0.01$.

Table S2. Duncan multiple comparison tests for the Longitudinal Specific MOE (MPa/Kg/m^3) obtained from vibration in *LR* plane at different crack length-Based on 18 observations.

Crack Size	Subsets for $\alpha = 0.05$	
	1	2
18 cm	15.850	
12 cm	19.641	19.641
6 cm		23.995
Zero		25.067

Means for groups in homogeneous subsets are displayed. a Uses Harmonic Mean Sample Size = 18.

Table S3. Duncan multiple comparison tests for the G_{LR} obtained from vibration in *LR* plane at different crack lengthh (GPa)–Based on 18 observations.

Crack Size	Subsets for $\alpha = 0.05$	
	1	2
18 cm	0.083	
12 cm	0.250	
6 cm	0.295	
Zero		0.730

Means for groups in homogeneous subsets are displayed. a Uses Harmonic Mean Sample Size = 18.