

6. The Keywords for Peridynamic Laminate

- MAT_ELASTIC_PERI_LAMINATE**

Card 1

Variable	MID	RO	Ef	Em	vfm	FOPT	FCf	FCm
Type	I	F	F	F	F	I	F	F
Default								

Card 2

Variable	V1	V2	V3
Type	F	F	F
Default			

V1,V2,V3: Locally orthotropic premier material axes determined by the cross product of the element normal and the cross product of the element normal with the cross product of the element normal with the element normal.

MID: User defined material ID

RO: mass density

Ef: E1, Young's modulus-longitudinal direction for one lamina. 1-direction

Em: E2, Young's modulus-transverse direction for one lamina. 2-direction

vfm: v12 Poisson's ration in the ply plane, **FOPT:** failure criteria type:

1: Energy release rate

2: Failure stretch ratio for tension

FCf: Failure criteria for longitudinal direction, 1-direction

FCm: Failure criteria for transverse direction,2-direction