

Mass properties of PackableFrame - Version-01

Configuration: Default

Coordinate system : -- default --

Density = 0.93000000 gram s per cubic centimeter

Mass = 1.38018894 gram s

Volume = 1.48407413 cubic centimeters

Surface area = 33.90126131 square centimeters

Center of mass: (centimeters)

X = -0.07639356

Y = 0.08250000

Z = 0.0672218

Principal axes of inertia and principal moments of inertia: (gram s * square centimeters)

Then at the center of mass.

I_x = (0.999999723, 0.000000000, 0.002355553) P_x = 15.71655260

I_y = (0.002355553, 0.000000000, -0.999999723) P_y = 18.72549604

I_z = (0.000000000, 1.000000000, 0.000000000) P_z = 34.43578603

Moments of inertia: (gram s * square centimeters)

Then at the center of mass and aligned with the output coordinate system.

L_{xx} = 15.71656930 L_{xy} = 0.000000000 L_{xz} = 0.00708764

L_{yx} = 0.000000000 L_{yy} = 34.43578603 L_{yz} = 0.000000000

L_{zx} = 0.00708764 L_{zy} = 0.000000000 L_{zz} = 18.72547935

Moments of inertia: (gram s * square centimeters)

Then at the output coordinate system.

I_{xx} = 15.73219985 I_{xy} = -0.00869860 I_{xz} = 0.000000000

I_{yx} = -0.00869860 I_{yy} = 34.45007743 I_{yz} = 0.00765418

I_{zx} = 0.000000000 I_{zy} = 0.00765418 I_{zz} = 18.74292801