Mass properties of RUBIK'S CENTERPIECE FRAME

Configuration: Default

Coordinate system: -- default --

Material: ABS Plastic

Density = 0.04 pounds per cubic inch

Mass = 0.04 pounds

Volume = 1.05 cubic inches

Surface area = 5.78 square inches

Center of mass: ( inches )

X = 0.00

Y = 0.00

Z = 0.00

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

Taken at the center of mass.

Ix = ( 1.00, 0.00, 0.00) Px = 0.01

Iy = ( 0.00, 1.00, 0.00) Py = 0.01

Iz = ( 0.00, 0.00, 1.00) Pz = 0.01

Moments of inertia: ( pounds \* square inches )

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

Lxx = 0.01 Lxy = 0.00 Lxz = 0.00

Lyx = 0.00 Lyy = 0.01 Lyz = 0.00

Lzx = 0.00 Lzy = 0.00 Lzz = 0.01

Moments of inertia: ( pounds \* square inches )

Taken at the output coordinate system.

Ixx = 0.01 Ixy = 0.00 Ixz = 0.00

Iyx = 0.00 Iyy = 0.01 Iyz = 0.00

Izx = 0.00 Izy = 0.00 Izz = 0.01

Mass properties of RUBIK'S CUBE CORNER FRAME

Configuration: Default

Coordinate system: -- default --

Material: ABS Plastic

Density = 0.04 pounds per cubic inch

Mass = 0.01 pounds

Volume = 0.16 cubic inches

Surface area = 5.16 square inches

Center of mass: ( inches )

X = 0.37

Y = 0.37

Z = 0.37

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

Taken at the center of mass.

Ix = ( 0.40, 0.82, -0.41) Px = 0.00

Iy = (-0.71, 0.00, -0.71) Py = 0.00

Iz = (-0.58, 0.57, 0.58) Pz = 0.00

Moments of inertia: ( pounds \* square inches )

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

Lxx = 0.00 Lxy = 0.00 Lxz = 0.00

Lyx = 0.00 Lyy = 0.00 Lyz = 0.00

Lzx = 0.00 Lzy = 0.00 Lzz = 0.00

Moments of inertia: ( pounds \* square inches )

Taken at the output coordinate system.

Ixx = 0.00 Ixy = 0.00 Ixz = 0.00

Iyx = 0.00 Iyy = 0.00 Iyz = 0.00

Izx = 0.00 Izy = 0.00 Izz = 0.00

Mass properties of CORNER LOCKING PIECE

Configuration: Default

Coordinate system: -- default --

Material: ABS Plastic

Density = 0.04 pounds per cubic inch

Mass = 0.00 pounds

Volume = 0.01 cubic inches

Surface area = 0.31 square inches

Center of mass: ( inches )

X = 0.00

Y = 0.00

Z = 0.00

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

Taken at the center of mass.

Ix = ( 0.25, 0.95, 0.18) Px = 0.00

Iy = (-0.60, 0.01, 0.80) Py = 0.00

Iz = ( 0.76, -0.31, 0.57) Pz = 0.00

Moments of inertia: ( pounds \* square inches )

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

Lxx = 0.00 Lxy = 0.00 Lxz = 0.00

Lyx = 0.00 Lyy = 0.00 Lyz = 0.00

Lzx = 0.00 Lzy = 0.00 Lzz = 0.00

Moments of inertia: ( pounds \* square inches )

Taken at the output coordinate system.

Ixx = 0.00 Ixy = 0.00 Ixz = 0.00

Iyx = 0.00 Iyy = 0.00 Iyz = 0.00

Izx = 0.00 Izy = 0.00 Izz = 0.00

Mass properties of RUBIK'S CUBE EDGE PIECE

Configuration: Default

Coordinate system: -- default –

Material: ABS Plastic

Density = 0.04 pounds per cubic inch

Mass = 0.01 pounds

Volume = 0.15 cubic inches

Surface area = 5.56 square inches

Center of mass: ( inches )

X = 0.00

Y = 0.03

Z = -0.32

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

Taken at the center of mass.

Ix = ( 1.00, 0.00, 0.00) Px = 0.00

Iy = ( 0.00, 0.73, -0.69) Py = 0.00

Iz = ( 0.00, 0.69, 0.73) Pz = 0.00

Moments of inertia: ( pounds \* square inches )

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

Lxx = 0.00 Lxy = 0.00 Lxz = 0.00

Lyx = 0.00 Lyy = 0.00 Lyz = 0.00

Lzx = 0.00 Lzy = 0.00 Lzz = 0.00

Moments of inertia: ( pounds \* square inches )

Taken at the output coordinate system.

Ixx = 0.00 Ixy = 0.00 Ixz = 0.00

Iyx = 0.00 Iyy = 0.00 Iyz = 0.00

Izx = 0.00 Izy = 0.00 Izz = 0.00

Mass properties of RUBIK'S CUBE TILE

Configuration: Default

Coordinate system: -- default –

Material: ABS Plastic

Density = 0.04 pounds per cubic inch

Mass = 0.00 pounds

Volume = 0.03 cubic inches

Surface area = 1.03 square inches

Center of mass: ( inches )

X = 0.00

Y = 0.05

Z = 0.00

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

Taken at the center of mass.

Ix = ( 0.00, 0.00, 1.00) Px = 0.00

Iy = ( 1.00, 0.00, 0.00) Py = 0.00

Iz = ( 0.00, 1.00, 0.00) Pz = 0.00

Moments of inertia: ( pounds \* square inches )

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

Lxx = 0.00 Lxy = 0.00 Lxz = 0.00

Lyx = 0.00 Lyy = 0.00 Lyz = 0.00

Lzx = 0.00 Lzy = 0.00 Lzz = 0.00

Moments of inertia: ( pounds \* square inches )

Taken at the output coordinate system.

Ixx = 0.00 Ixy = 0.00 Ixz = 0.00

Iyx = 0.00 Iyy = 0.00 Iyz = 0.00

Izx = 0.00 Izy = 0.00 Izz = 0.00

Mass properties of RUBIK'S CUBE CENTER FRAME FINAL

Configuration: Default

Coordinate system: -- default --

Material: ABS Plastic

Density = 0.04 pounds per cubic inch

Mass = 0.00 pounds

Volume = 0.11 cubic inches

Surface area = 2.52 square inches

Center of mass: ( inches )

X = 0.00

Y = 0.06

Z = 0.00

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

Taken at the center of mass.

Ix = ( 1.00, 0.00, 0.04) Px = 0.00

Iy = ( 0.04, 0.00, -1.00) Py = 0.00

Iz = ( 0.00, 1.00, 0.00) Pz = 0.00

Moments of inertia: ( pounds \* square inches )

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

Lxx = 0.00 Lxy = 0.00 Lxz = 0.00

Lyx = 0.00 Lyy = 0.00 Lyz = 0.00

Lzx = 0.00 Lzy = 0.00 Lzz = 0.00

Moments of inertia: ( pounds \* square inches )

Taken at the output coordinate system.

Ixx = 0.00 Ixy = 0.00 Ixz = 0.00

Iyx = 0.00 Iyy = 0.00 Iyz = 0.00

Izx = 0.00 Izy = 0.00 Izz = 0.00