VOLUME = 9.7270153e+05 MM^3

SURFACE AREA = 1.8825731e+05 MM^2

AVERAGE DENSITY = 1.3092177e-06 KILOGRAM / MM^3

MASS = 1.2734781e+00 KILOGRAM

CENTER OF GRAVITY with respect to DEFAULT\_CSYS coordinate frame:

X Y Z -1.0072498e-02 3.7590658e-02 1.9772332e+01 MM

INERTIA with respect to DEFAULT\_CSYS coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 2.8039710e+03 2.9229975e-01 4.1154958e-02

Iyx Iyy Iyz 2.9229975e-01 2.8031757e+03 -1.5360913e-01

Izx Izy Izz 4.1154958e-02 -1.5360913e-01 3.0675636e+03

INERTIA at CENTER OF GRAVITY with respect to DEFAULT\_CSYS coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 2.3061092e+03 2.9181758e-01 -2.1246684e-01

Iyx Iyy Iyz 2.9181758e-01 2.3053155e+03 7.9290978e-01

Izx Izy Izz -2.1246684e-01 7.9290978e-01 3.0675616e+03

PRINCIPAL MOMENTS OF INERTIA: (KILOGRAM \* MM^2)

I1 I2 I3 2.3052189e+03 2.3062049e+03 3.0675625e+03

ROTATION MATRIX from DEFAULT\_CSYS orientation to PRINCIPAL AXES:

-0.31169 -0.95018 -0.00028

0.95018 -0.31170 0.00104

-0.00108 0.00006 1.00000

ROTATION ANGLES from DEFAULT\_CSYS orientation to PRINCIPAL AXES (degrees):

angles about x y z -0.060 0.000 108.161

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 4.2546158e+01 4.2555256e+01 4.9079595e+01 MM

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MASS PROPERTIES OF COMPONENTS OF THE ASSEMBLY

(in assembly units and the DEFAULT\_CSYS coordinate frame)

DENSITY MASS C.G.: X Y Z

CE0008B0 MATERIAL: UNKNOWN

2.81000e-06 1.03756e-01 -1.23628e-01 4.61379e-01 9.62425e-01

RUBBER-SPHERE\_ENDEFFECTOR MATERIAL: UNKNOWN

1.25000e-06 1.16972e+00 6.80377e-08 -5.89210e-12 2.14408e+01