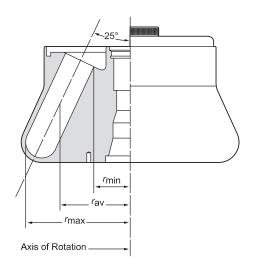
TA-14-50 ROTOR



SPECIFICATIONS

Maximum speed
Density rating at maximum speed 1.2 g/mL
Critical speed range*
Relative Centrifugal Field* at maximum speed
At r_{max} (96.0 mm)
At r_{av} (64.5 mm)
At r_{\min} (33.0 mm)
Conditions requiring speed reductions see RUN SPEEDS
Maximum imbalance of opposing loads 8 grams
Number of tube cavities
Available bottles and tubes see Table 1
Nominal tube dimensions
Nominal tube capacity (largest tube) 50 mL
Nominal rotor capacity
Approximate acceleration time to maximum speed
(fully loaded)
Approximate deceleration time from maximum speed
(fully loaded)
Weight of fully loaded rotor 5.76 kg (12.70 lb)
Rotor and lid material aluminum

^{*} The critical speed range is the range of speeds over which the rotor shifts so as to rotate about its center of mass. Passing through or running at the critical speed range is characterized by some vibration

$$RCF = \frac{r\omega^2}{g}$$

where r is the radius in millimeters, ω is the angular velocity in radians per second (2 π RPM /60), and g is the standard acceleration of gravity (9807 mm/s²). After substitution:

$$RCF = 1.12 r \left(\frac{RPM}{1000}\right)^2$$

[†] Relative Centrifugal Field (RCF) is the ratio of the centrifugal acceleration at a specified radius and speed $(r\omega^2)$ to the standard acceleration of gravity (g) according to the following formula: