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| --- | --- | --- | --- | --- | --- | --- |
| **NRI Flying Club** | | |  | | |  |
|  | | | N21348 | | |  |
|  | | | Updated 19-Jun-2022 | | |  |
| **General** | |  | | **Speeds** | **MPH IAS** | |
| Year |  | 1972 | | Vr – Rotate / init climb @ Flaps (Normal) | 60/ 90 @ 0-20 deg | |
| Type |  | Cessna 182P Skylane | | Vr – Rotate / init climb @ Flaps (Short Fld) | 60 / 63 @ 20 deg | |
| Engine |  | Continental O-470R | | Vr – Rotate / init climb @ Flaps (Soft Field) | 60 / 63 @ 20 deg | |
| Propeller |  | 82” Constant Speed | | Normal Climb Speed | 89 | |
| HP @ RPM |  | 230 @ 2600 | | Vx – Best Angle of Climb | 70 | |
| Fuel Octane Grade Minimum |  | 100LL (Blue) | | Vy – Best Rate of Climb | 89 | |
| Fuel Useable |  | 79 gallons | | Vcc – Best Enroute Climb | 100-110 @ 23/2450 | |
| Fuel Unusable Gal |  | 5.0 | | Vno – Normal Operating Speed | 160 | |
| Fuel Consumption at 75% Power (GPH) |  | 14.0 gallons | | Vne – Never Exceed speed | 198 | |
| Endurance (75% Pwr, less 45’ reserve) |  | 4 Hours 54 Mins | | Va – Maneuvering Speed | 126 | |
| Oil (quarts) Min/Max – Preferred |  | 9 / 12 | |  |  | |
| Air Pressure PSI (Nose / Mains) |  | 49 /42 | |  |  | |
| Positive Load: |  | 3.8g no flaps | | Vfe – Flap Extension Speed (1-10 Degree) | 140 | |
|  |  | 2.0g with flaps | | Vfe – Flap Extension Speed (11-Max Degree) | 110 | |
| Negative Load: |  | -1.52g | | Vlo / Vle – Max Landing gear op/extend | N/A | |
|  |  |  | | Vs – Stall Speed (Clean) | 64 | |
| **Weight & Balance** | | | | Vso – Stall Speed (Clean) | 57 | |
| Basic Empty Weight |  | 1798.4 | | Normal Approach - Downwind | 80-90 | |
| Useful Load |  | 1151.6\* | | Normal Approach - Base | 70-80 | |
| Fuel Weight |  | 474 | | Normal Approach – Final (Full Flaps) | 70-80 | |
| Cabin Load w/ Full Fuel and Oil/No Bags |  | 827.6\* | | Short Approach – Final (Full Flaps) | 69 | |
| Max Baggage |  | 200 | | Best Glide Speed / Engine Out | 80 no Flaps | |
| Max Gross Weight |  | 3100\* | |  | 75 full Flaps @ 2950 | |
| CG (empty) |  | 36.63 | |  | 85 full flaps @ 2951-3100 | |
| Empty moment |  | 65,874 | | Max Crosswind | 18 kts | |
| Gear retraction moment change |  | N/A | | White Arc (full flap, operating range) | 63-110 | |
| Date of last Weight and Balance |  | 26-Aug-2021 | | Green Arc (normal operating range) | 68-160 | |
|  |  |  | | Yellow Arc (caution, only in smooth air) | 160-198 | |
|  |  |  | | Red Line (Never Exceed) | 198 | |
|  |  |  | |  |  | |

\*Note: Max TOW 3100, max landing weight is 2950 These are estimates only.

Please Consult POH for Official Data

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