

Thermostat metal mechanical and physical properties

| Polymet PMC | ASTM Flexivity | | Maximum Sensitivity Temperature Range | Useful Deflection Temperature Range | Recommended Maximum Temperature | Modulus of Elasticity | Electrical Resistivity at 75° F | | Recommended Stabilizing Heat Treatment | Density |
|----------------|---|---|--|--|---------------------------------------|--------------------------------------|------------------------------------|------------------------------|--|--------------|
| | 50° to 200° F Temperature Range | 100° to 300° F Temperature Range | | | | | ohms c. mil/ft | ohms mil ² /ft | | |
| TYPE | F _L (X 10 ⁻⁷) | F _L (X 10 ⁻⁷) | °F | °F | °F | lbs./sq. in. (X 10 ⁶) | ohms c. mil/ft | ohms mil ² /ft | One Hour At °F | lbs./cu. in. |
| N-1 | 102 | 101 | 0 to 300 | -100 to 200 | 900 | 26.0 | 95 | 75 | 700 | 0.31 |
| 27-1 | 185 | 185 | 0 to 300 | -100 to 500 | 500 | 20.0 | 650 | 510 | 500 | 0.28 |
| 27-560 | 145 | 145 | 0 to 300 | -100 to 700 | 900 | 24.0 | 560 | 440 | 700 | 0.28 |
| 181-1 | 139 | 139 | 0 to 300 | -100 to 700 | 900 | 25.0 | 472 | 371 | 700 | 0.29 |
| 181-3 | 106 | 109 | 200 to 600 | -100 to 1000 | 900 | 25.0 | 430 | 338 | 700 | 0.29 |
| 192-1 | 154 | 151 | 0 to 300 | -100 to 700 | 900 | 25.0 | 483 | 380 | 700 | 0.29 |
| 192-3 | 120 | 120 | 200 to 600 | -100 to 800 | 900 | 25.0 | 420 | 330 | 700 | 0.29 |
| 192-11 | 143 | 141 | 150 to 450 | -100 to 900 | 900 | 25.0 | 472 | 371 | 700 | 0.29 |
| 223-1 | 150 | 146 | 0 to 300 | -100 to 700 | 1000 | 25.0 | 475 | 373 | 700 | 0.29 |
| 223-2 | 129 | 125 | 100 to 550 | -100 to 1000 | 1000 | 25.0 | 440 | 346 | 700 | 0.29 |
| 223-3 | 112 | 122 | 200 to 600 | -100 to 1000 | 1000 | 25.0 | 415 | 327 | 700 | 0.29 |
| 223-11 | 140 | 141 | 150 to 450 | -100 to 1000 | 900 | 25.0 | 452 | 355 | 700 | 0.30 |
| 223-N | 46 | 47 | 0 to 300 | -100 to 700 | 700 | 28.5 | 95 | 75 | 700 | 0.31 |
| 223-100 | 112 | 105 | 0 to 300 | -100 to 700 | 900 | 26.0 | 100 | 78.5 | 700 | 0.30 |
| 223-125 | 124 | 127 | 0 to 300 | -100 to 700 | 900 | 26.0 | 125 | 98 | 700 | 0.30 |
| 223-150 | 135 | 133 | 0 to 300 | -100 to 700 | 900 | 26.0 | 150 | 118 | 700 | 0.30 |
| 223-175 | 138 | 137 | 0 to 300 | -100 to 700 | 900 | 25.5 | 175 | 137 | 700 | 0.30 |
| 223-200 | 140 | 140 | 0 to 300 | -100 to 700 | 900 | 25.5 | 200 | 157 | 700 | 0.30 |
| 223-250 | 147 | 143 | 0 to 300 | -100 to 700 | 900 | 25.5 | 250 | 196 | 700 | 0.30 |
| 223-300 | 149 | 144 | 0 to 300 | -100 to 700 | 900 | 25.0 | 300 | 236 | 700 | 0.30 |
| 223-350 | 150 | 145 | 0 to 300 | -100 to 700 | 900 | 25.0 | 350 | 275 | 700 | 0.29 |
| 223-400 | 150 | 146 | 0 to 300 | -100 to 700 | 900 | 25.0 | 400 | 314 | 700 | 0.29 |
| 258-1 | 138 | 136 | 0 to 300 | -100 to 700 | 1000 | 25.0 | 500 | 393 | 700 | 0.29 |
| 258-3 | 104 | 106 | 200 to 600 | -100 to 1000 | 1000 | 25.0 | 440 | 346 | 700 | 0.29 |
| 258-4 | 84 | 86 | 250 to 700 | -100 to 1000 | 1000 | 25.0 | 400 | 314 | 700 | 0.29 |
| 258-5 | 63 | 64 | 300 to 800 | -100 to 1000 | 1000 | 25.5 | 350 | 275 | 700 | 0.29 |
| 703-1 | 150 | 150 | 0 to 300 | -100 to 350 | 350 | 18.0 | 74 | 58 | 300 | 0.30 |
| 721-3 | 180 | 180 | 200 to 600 | -100 to 600 | 500 | 20.0 | 565 | 447 | 500 | 0.28 |
| 721-30 | 188 | 188 | 0 to 400 | -100 to 500 | 500 | 20.0 | 30 | 23.6 | 500 | 0.30 |
| 721-35 | 198 | 190 | 0 to 400 | -100 to 500 | 500 | 20.0 | 35 | 27.5 | 500 | 0.30 |
| 721-40 | 201 | 196 | 0 to 400 | -100 to 500 | 500 | 20.0 | 40 | 31.4 | 500 | 0.30 |
| 721-50 | 207 | 250 | 0 to 400 | -100 to 500 | 500 | 20.0 | 50 | 39.3 | 500 | 0.30 |
| 721-60 | 210 | 200 | 0 to 400 | -100 to 500 | 500 | 20.0 | 60 | 47.1 | 500 | 0.29 |
| 721-70 | 211 | 202 | 0 to 400 | -100 to 500 | 500 | 20.0 | 70 | 55.0 | 500 | 0.29 |
| 721-90 | 213 | 204 | 0 to 400 | -100 to 500 | 500 | 20.0 | 90 | 70.7 | 500 | 0.29 |
| 721-100 | 214 | 205 | 0 to 400 | -100 to 500 | 500 | 20.0 | 100 | 78.5 | 500 | 0.29 |
| 721-125 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 125 | 98.0 | 500 | 0.29 |
| 721-150 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 150 | 118 | 500 | 0.29 |
| 721-175 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 175 | 137 | 500 | 0.29 |
| 721-200 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 200 | 157 | 500 | 0.29 |
| 721-250 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 250 | 196 | 500 | 0.29 |
| 721-300 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 300 | 236 | 500 | 0.29 |
| 721-350 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 350 | 275 | 500 | 0.29 |
| 721-400 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 400 | 314 | 500 | 0.29 |
| 721-675 | 215 | 209 | 0 to 400 | -100 to 500 | 500 | 20.0 | 675 | 530 | 500 | 0.28 |
| 721-850 | 159 | 159 | 0 to 400 | -100 to 500 | 500 | 19.5 | 850 | 668 | 500 | 0.27 |
| 925-1 | 134 | 133 | 0 to 300 | -100 to 500 | 625 | 29.0 | 110 | 86.4 | 500 | 0.31 |
| 925-17 | 56 | 56 | 0 to 625 | -100 to 500 | 625 | 22.0 | 106 | 95 | 500 | 0.30 |
| 925-SR | 85 | 83 | 0 to 300 | -100 to 500 | 625 | 21.0 | 70 | 55 | 500 | 0.31 |
| 982-15 | 70 | 69 | 0 to 300 | -100 to 500 | 500 | 20.0 | 15 | 11.8 | 500 | 0.32 |
| 982-20 | 128 | 125 | 0 to 300 | -100 to 500 | 500 | 20.0 | 20 | 15.7 | 500 | 0.31 |
| 982-25 | 135 | 130 | 0 to 300 | -100 to 500 | 500 | 22.0 | 25 | 19.6 | 500 | 0.31 |
| 982-30 | 139 | 133 | 0 to 300 | -100 to 500 | 500 | 23.0 | 30 | 23.6 | 500 | 0.30 |
| 982-35 | 142 | 135 | 0 to 300 | -100 to 500 | 500 | 23.5 | 35 | 27.5 | 500 | 0.30 |
| 982-40 | 144 | 138 | 0 to 300 | -100 to 500 | 500 | 24.0 | 40 | 31.4 | 500 | 0.30 |
| 982-50 | 146 | 141 | 0 to 300 | -100 to 500 | 500 | 24.0 | 50 | 39.3 | 500 | 0.30 |
| 982-60 | 146 | 142 | 0 to 300 | -100 to 500 | 500 | 24.5 | 60 | 47.1 | 500 | 0.30 |
| 982-70 | 147 | 144 | 0 to 300 | -100 to 500 | 700 | 24.5 | 70 | 55.0 | 500 | 0.30 |
| 982-90 | 148 | 144 | 0 to 300 | -100 to 500 | 700 | 25.0 | 90 | 70.7 | 500 | 0.30 |
| 982-100 | 148 | 144 | 0 to 300 | -100 to 500 | 700 | 25.0 | 100 | 78.5 | 500 | 0.30 |