

HAYNES[®] R-41 alloy

Elastic Modulus

Elastic Modulus, Shear Modulus, and Poisson's Ratio

| Test Temperature | | Modulus of Elasticity | | Shear Modulus | | Poisson's Ratio |
|------------------|-----|-----------------------|-----|---------------------|-----|-----------------|
| °F | °C | 10 ⁶ psi | GPa | 10 ⁶ psi | GPa | |
| 80 | 27 | 31.6 | 218 | 12 | 83 | 0.31 |
| 300 | 149 | 30.9 | 213 | 12 | 81 | 0.31 |
| 500 | 260 | 29.6 | 204 | 11 | 77 | 0.32 |
| 700 | 371 | 28.7 | 198 | 11 | 75 | 0.32 |
| 900 | 482 | 27.6 | 190 | 10 | 72 | 0.32 |
| 1000 | 538 | 27.2 | 188 | - | - | - |
| 1100 | 593 | 26.4 | 182 | 10 | 69 | 0.33 |
| 1200 | 649 | 25.9 | 179 | - | - | - |
| 1250 | 677 | 25.8 | 178 | 10 | 67 | 0.33 |
| 1400 | 760 | 24.8 | 171 | 9 | 64 | 0.33 |
| 1500 | 816 | 24.1 | 166 | - | - | - |
| 1550 | 843 | 23.7 | 163 | 9 | 61 | 0.34 |
| 1600 | 871 | 23.2 | 160 | - | - | - |
| 1700 | 927 | 21.8 | 150 | 8 | 55 | 0.35 |

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