

# HAYNES<sup>®</sup> 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 <sup>6</sup> psi	GPa	10 <sup>6</sup> 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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