

MATERIAL COMPARISON

HYCOMP™ COMPOSITES

| Hycomp™ Composite Lines Grade | | H310® | H320® | Wearcomp® | Wearcomp® 200 |
|-------------------------------|---------------------------------|--|--|---|---|
| | Polymer Base | PI resin | PI resin | PI resin | PI resin |
| Quick Overview | Main features | Highest strength at high temperature Aerospace Grade | High temperature heat shields & electrical insulation applications | Outstanding mechanical strength & wear resistance at high temperature | Extreme mechanical strength & wear resistance at high temperature |
| | Specific Gravity | 1.54 | 1.88 | 1.54 | 1.59 |
| Service Conditions | Continuous use temperature | +315°C (+600°F) | +315°C (600°F) | +315°C (+600°F) | -315°C (+600°C) |
| | Tensile Strength - RT | 314 MPa (45,540 psi) | 234 MPa (33,940 psi) | 220 MPa (31,910 psi) | 138 MPa (20,015 psi) |
| Mechanical | Compressive Strength - RT | 628 Mpa (91,080 psi) | 331 MPa (48,010 psi) | 517 MPa (79,985 psi) | 296 MPa (42,930 psi) |
| | Flexural Strength - RT | 546 Mpa (79,190 psi) | 434 Mpa (62,945 psi) | 345 Mpa (50,040 psi) | 209 Mpa (30,310 psi) |
| | Thermal expansion-Perpendicular | 55X10 ⁻⁶ m/m°C | 43.2X10 ⁻⁶ m/m°C | 27X10 ⁻⁶ m/m°C | 27X10 ⁻⁶ m/m°C |
| | Thermal expansion-Parallel | 4X10 ⁻⁶ m/m°C | 14.4X10 ⁻⁶ m/m°C | 3.6X10 ⁻⁶ m/m°C | 3.6X10 ⁻⁶ m/m°C |
| Available As | Basic shapes | NO | NO | NO | NO |
| | Finished parts | YES | YES | YES | YES |

- The list above is only a partial list of the available Hycomp™ material formulations, shapes, parts and lines. More data is available on the Omniseal Solutions™ website.
- H310®, H320® and Wearcomp® are all registered trademarks of Omniseal Solutions™.
- Data ranges may be exceeded based on specific application requirements. Please consult with an Omniseal Solutions™ engineer or technical expert for further details.
- Most Hycomp™ solutions have excellent chemical compatibility and wear. Data is available upon request.