



MATERIAL DATASHEET

HYCOMP™ COMPOSITES H310®

Sheet molding compound, Polyimide material, Carbon Fiber filling (12k tow, 1" long) Features:

Benefits: Low to moderate speed, high temperature, high load, wear resistant, hot compression

molded (HCM)

| PHYSICAL | Typical Values | |
|---------------------|--|---|
| ACTIA DECO | | |
| ASTM D792 | 1.54 | - |
| - | <0.5 | % by wt. |
| MECHANICAL | | |
| | | |
| | 314 [45.540] | |
| ASTM D638 | | MPa [psi] |
| | | |
| | | |
| | 46.0 [6,672,000] | |
| ASTM D638 | | GPa [psi] |
| | | |
| | | |
| | 0.6 | |
| ASTM D638 | | MPa [psi] |
| | 0.6 | |
| | | |
| ASTM D790 | 546 [79,190] | |
| | | MPa [psi] |
| | | |
| | | |
| ASTM D790 | 35.1 [5,091,000] | |
| | 33.6 [4,873,000] | GPa [psi] |
| | 29.6 [4,293,000] | |
| | | |
| ASTM D695 | 628 [91,080] | MPa [psi] |
| | 436 [63,240] | |
| ASTM D256 | 705 [13.2] | J/m [ft-lb/in] |
| THERMAL | | |
| | | |
| | 55 | 1 100 5 1 1 1003 |
| ASTM E831 | 4 | μm/m/°C [μin/in/°F] |
| - | 315 [600] | °C [°F] |
| WEAR CHARACTERIST | ICS | |
| ASTM D3702 | 0.6 | - |
| - | 2.8 [80,000] | MPa·m/s [psi*Sf/Min.] |
| GENERAL | | |
| - | Carbon Fiber | - |
| - | | - |
| CHEMICAL COMPATIBIL | The state of the s | |
| - | | |
| | | - |
| | | - |
| | | - |
| | | - |
| | Not Recommended | - |
| | ASTM D638 ASTM D638 ASTM D638 ASTM D790 ASTM D790 ASTM D790 ASTM D256 THERMAL ASTM E831 - WEAR CHARACTERIST ASTM D3702 - GENERAL - GENERAL | ASTM D638 277 [40,180] 272 [30,750] 46.0 [6,672,000] 46.8 [6,498,000] 37.2 [5,395,000] ASTM D638 0.6 0.6 ASTM D790 ASTM D790 |

"Measurements were conducted in temperature range from 40°c to 260°C.
"Values were obtained under thrust washer test PV conditions: pressure (P) 100 psi, velocity (V) 100 f/m.
Measured by standard ASTM methods on machined, compression-molded test specimens.
Registered tradename of Omniseal Solutions3 - Patent issued and pending.
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