

## Adamas Adalon® 131 PTFE, 25% Soft Carbon Filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Carbon Fiber Filled

### Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Adamas-Adalon-131-PTFE-25-Soft-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Adamas-Adalon-131-PTFE-25-Soft-Carbon-Filled.php)

| Physical Properties | Metric           | English          | Comments                                             |
|---------------------|------------------|------------------|------------------------------------------------------|
| Specific Gravity    | 2.09 - 2.12 g/cc | 2.09 - 2.12 g/cc | ASTM D792                                            |
| Water Absorption    | 0.00 %           | 0.00 %           | ASTM D570                                            |
| Deformation         | 2.0 - 3.9 %      | 2.0 - 3.9 %      | Permanent deformation after 24 hrs @ 23°C; ASTM D621 |
|                     | 5.0 - 6.9 %      | 5.0 - 6.9 %      | ASTM D621                                            |

| Mechanical Properties            | Metric                                                 | English                                               | Comments                                             |
|----------------------------------|--------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|
| Hardness, Shore D                | 58 - 62                                                | 58 - 62                                               | ASTM D2240                                           |
| Ball Indentation Hardness        | 52.0 - 56.0 MPa                                        | 7540 - 8120 psi                                       | ISO 2032-N961                                        |
| Tensile Strength at Break        | >= 16.0 MPa                                            | >= 2320 psi                                           | ASTM D4745-11                                        |
| Elongation at Break              | >= 170 %                                               | >= 170 %                                              | ASTM D4745-11                                        |
| Compressive Strength             | >= 6.86 MPa<br>@Temperature 23.0 °C,<br>Time 86400 sec | >= 996 psi<br>@Temperature 73.4 °F,<br>Time 24.0 hour | @ 1% deformation, 140 Kg/cm <sup>2</sup> ; ASTM D621 |
| Coefficient of Friction, Dynamic | 0.080 - 0.12                                           | 0.080 - 0.12                                          | ASTM D1894                                           |
| Coefficient of Friction, Static  | 0.14 - 0.16                                            | 0.14 - 0.16                                           | ASTM D1894                                           |

| Thermal Properties               | Metric      | English                            | Comments   |
|----------------------------------|-------------|------------------------------------|------------|
| Thermal Conductivity             | 0.340 W/m-K | 2.36 BTU-in/hr-ft <sup>2</sup> -°F | ASTM C 177 |
| Melting Point                    | 327 °C      | 621 °F                             | DSC        |
| Maximum Service Temperature, Air | 260 °C      | 500 °F                             | DSC        |
| Minimum Service Temperature, Air | -80.0 °C    | -112 °F                            | DSC        |
| Flammability, UL94               | V-0         | V-0                                |            |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | Metric   | English  | Comments  |
|-----------------------|----------|----------|-----------|
| Surface Resistance    | 1000 ohm | 1000 ohm | ASTM D257 |

## Contact Songhan Plastic Technology Co.,Ltd.

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