

## Technical Data Sheet

# Sustamid<sup>®</sup> 6G OL - ASTM

PA 6 G

### Typical characteristics

- Self-lubricating
- Good "stick-slip" properties
- High absorption of moisture of up to 3 % in standard atmosphere
- Good sliding properties

### Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation

|   | Test method | Unit                       | Guideline value |
|---|-------------|----------------------------|-----------------|
| <b>General properties</b>               |             |                            |                 |
| Density                                 | ASTM D792   | g / cm <sup>3</sup>        | 1.15            |
| Water Absorption                        | ASTM D570   | %                          | 5.0             |
| Water Absorption 24 hours               | ASTM D570   | %                          | 1.0             |
| <b>Mechanical properties</b>            |             |                            |                 |
| Hardness                                | ASTM D2240  | Shore D                    | 74              |
| Tensile Strength at yield 73°F          | ASTM D638   | psi                        | 11000           |
| Tensile Modulus                         | ASTM D638   | psi                        | 370000          |
| Elongation at Break                     | ASTM D638   | %                          | 30              |
| Flexural Strength                       | ASTM D790   | psi                        | 14000           |
| Flexural Modulus                        | ASTM D790   | psi                        | 380000          |
| Compressive Strength                    | ASTM D695   | psi                        | 13500           |
| Rockwell Hardness                       | ASTM D785   |                            | 85              |
| Rockwell Hardness                       | ASTM D785   | R                          | 115             |
| Shear Strength                          | ASTM D732   | psi                        | 8000            |
| Izod Impact, Notched                    | ASTM D256   | ft-lb/in                   | 1.2             |
| Coefficient of Friction, Dynamic        |             |                            | 0.12            |
| <b>Thermal properties</b>               |             |                            |                 |
| Thermal Conductivity                    |             | in/hr/ft <sup>2</sup> /°F  | 1.7             |
| Coefficient of Linear Thermal Expansion | ASTM D696   | in/in/°F x10 <sup>-5</sup> | 5.0             |
| Melting Point                           |             | °F                         | 430             |

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|                                     | Test method | Unit     | Guideline value   |
|-------------------------------------|-------------|----------|-------------------|
| Continuous Service Temperature, Air |             | °F       | 210               |
| Flammability, UL94                  |             | 1/8 inch | HB                |
| Deflection Temperature at 264psi    | ASTM D648   | °F       | 200               |
| Deflection Temperature at 66psi     | ASTM D648   | °F       | 380               |
| <b>Electrical properties</b>        |             |          |                   |
| Dielectric constant                 | ASTM D150   | 1MHz     | 3.7               |
| Dielectric strength                 | ASTM D149   | V/mil    | 500               |
| Surface resistivity                 | ASTM D257   | Ω/cm     | >10 <sup>13</sup> |
| <b>Compliance properties</b>        |             |          |                   |
| FDA                                 |             |          | No                |
| NSF                                 |             |          | No                |
| USDA                                |             |          | No                |

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

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