

# ALTECH® PA6 A 1000/209

Polyamide 6  
ALBIS PLASTIC GmbH

Message:

ALTECH® PA6 A 1000/209 is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, or North America. Applications of ALTECH® PA6 A 1000/209 include caps/lids/closures and engineering/industrial parts.

Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- Good Mold Release
- Heat Stabilizer

| General Information            |      |                      |                   |             |
|--------------------------------|------|----------------------|-------------------|-------------|
| UL YellowCard                  |      | E80168-250644        |                   |             |
| Additive                       |      | Heat Stabilizer      |                   |             |
| Features                       |      | Good Mold Release    |                   |             |
|                                |      | Heat Stabilized      |                   |             |
|                                |      | High Flow            |                   |             |
| Uses                           |      | Caps                 |                   |             |
|                                |      | Thin-walled Parts    |                   |             |
| Agency Ratings                 |      | EC 1907/2006 (REACH) |                   |             |
| RoHS Compliance                |      | RoHS Compliant       |                   |             |
| Physical                       | Dry  | Conditioned          | Unit              | Test Method |
| Density                        | 1.13 | --                   | g/cm <sup>3</sup> | ISO 1183    |
| Water Absorption               |      |                      |                   | ISO 62      |
| Saturation, 23°C               | 9.5  | --                   | %                 |             |
| Equilibrium, 23°C, 50% RH      | 3.0  | --                   | %                 |             |
| Mechanical                     | Dry  | Conditioned          | Unit              | Test Method |
| Tensile Modulus                | 3200 | 1500                 | MPa               | ISO 527-2   |
| Tensile Stress (Break)         | 85.0 | 45.0                 | MPa               | ISO 527-2   |
| Tensile Strain                 |      |                      |                   | ISO 527-2   |
| Yield                          | 4.0  | --                   | %                 |             |
| Break                          | 15   | 50                   | %                 |             |
| Flexural Modulus               | 2800 | --                   | MPa               | ISO 178     |
| Flexural Stress                | 105  | 55.0                 | MPa               | ISO 178     |
| Impact                         | Dry  | Conditioned          | Unit              | Test Method |
| Charpy Notched Impact Strength | 4.1  | --                   | kJ/m <sup>2</sup> | ISO 179/1eA |

|                                  |              |             |         |             |
|----------------------------------|--------------|-------------|---------|-------------|
| Charpy Unnotched Impact Strength | No Break     | --          |         | ISO 179/1eU |
| Thermal                          | Dry          | Conditioned | Unit    | Test Method |
| Heat Deflection Temperature      |              |             |         |             |
| 0.45 MPa, Unannealed             | 175          | --          | °C      | ISO 75-2/B  |
| 1.8 MPa, Unannealed              | 65.0         | --          | °C      | ISO 75-2/A  |
| Vicat Softening Temperature      | 200          | --          | °C      | ISO 306/B50 |
| Electrical                       | Dry          | Conditioned | Unit    | Test Method |
| Surface Resistivity              | --           | 1.0E+14     | ohms    | IEC 60093   |
| Volume Resistivity               | 1.0E+17      | --          | ohms·cm | IEC 60093   |
| Comparative Tracking Index       | 600          | --          | V       | IEC 60112   |
| Flammability                     | Dry          | Conditioned | Unit    | Test Method |
| Flame Rating (1.50 mm)           | V-2          | --          |         | UL 94       |
| Injection                        | Dry          | Unit        |         |             |
| Drying Temperature               | 80.0         |             | °C      |             |
| Drying Time                      | 2.0 to 12    |             | hr      |             |
| Suggested Max Moisture           | 0.15         |             | %       |             |
| Processing (Melt) Temp           | 250 to 270   |             | °C      |             |
| Mold Temperature                 | 40.0 to 80.0 |             | °C      |             |

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