

ALCOM® PA6 900/5 CF/MR

Polyamide 6
ALBIS PLASTIC GmbH

Message:

ALCOM® PA6 900/5 CF/MR is a Polyamide 6 (Nylon 6) product filled with 10% carbon fiber and 15% mineral. It can be processed by electrostatic spray coating or injection molding and is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PA6 900/5 CF/MR include automotive and engineering/industrial parts.

Characteristics include:

- REACH Compliant
- RoHS Compliant
- Conductive
- Heat Stabilizer
- Warp Resistant

| General Information | |
|------------------------|---|
| Filler / Reinforcement | Carbon Fiber,10% Filler by Weight Mineral,15% Filler by Weight |
| Additive | Heat Stabilizer |
| Features | Electrically Conductive Heat Stabilized Low Warpage |
| Uses | Automotive Applications Machine/Mechanical Parts |
| Agency Ratings | EC 1907/2006 (REACH) |
| RoHS Compliance | RoHS Compliant |
| Processing Method | Electrostatic Spray Coating Injection Molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|----------------------------------|-------|-------------|-------------------|-------------|
| Density | 1.29 | -- | g/cm ³ | ISO 1183 |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 12500 | -- | MPa | ISO 527-2 |
| Tensile Strain (Break) | 2.4 | -- | % | ISO 527-2 |
| Flexural Modulus | 10500 | -- | MPa | ISO 178 |
| Flexural Stress | 225 | -- | MPa | ISO 178 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength | 5.0 | -- | kJ/m ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | 45 | -- | kJ/m ² | ISO 179/1eU |

| Thermal | Dry | Conditioned | Unit | Test Method |
|---|-------------|-------------|------|-------------|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 203 | -- | °C | ISO 75-2/A |
| Vicat Softening Temperature | 212 | -- | °C | ISO 306/B50 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Surface Resistivity | -- | 5.0E+2 | ohms | IEC 60093 |
| Injection | Dry | Unit | | |
| Drying Temperature - Desiccant Dryer | 80.0 | | °C | |
| Drying Time - Desiccant Dryer | 2.0 to 12 | | hr | |
| Processing (Melt) Temp | 270 to 290 | | °C | |
| Mold Temperature | 80.0 to 100 | | °C | |

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