

performanceplastics

Badamid A2GF30 Nylon 66 30% GF Reinforced Black

PROPERTIES

Mechanical Properties

| | | Standard | Unit | State | PA 66 GF30 |
|-------------------------|-------------|---------------|-------------------|-------------|--------------|
| Tensile E-Modulus | 1 mm/min | ISO 527 | MPa | dry cond | 8000 5800 |
| Tensile strength | 50 mm/min | ISO 527 | MPa | dry cond | 150 105 |
| Elongation at break | 50 mm/min | ISO 527 | % | dry cond | ≤2 ≤4.5 |
| Impact Strength | Charpy 23°C | ISO 179/1-1eU | kJ/m ² | dry cond | 70 - |
| Notched impact strength | Charpy 23°C | ISO 179/1-1eA | kJ/m ² | dry cond | 10 20 |

Thermal Properties

| | | | | | |
|--|-----|-----------|----|-----|---------|
| Melting point | DSC | ISO 11357 | °C | dry | 260-265 |
| Heat deflection temperature HDT, 1.8 MPa | | ISO 75 | °C | dry | ≤230 |
| Heat deflection temperature HDT, 8.0 MPa | | ISO 75 | °C | dry | ≤230 |

Electrical Properties

| | | | | | |
|----------------------------|-----|-----------|-------|-------------|------------|
| Dielectric constant | | IEC 60250 | kV/mm | dry cond | 3.5 5.6 |
| Comparative tracking index | CTI | IEC 60112 | - | cond | 600 |

General Properties

| | | | | | |
|------------------------|---------------|----------|-------------------|-----|-----------|
| Density | | ISO 1183 | g/cm ³ | dry | 1.35±0.02 |
| Flammability (UL94) | 0.8mm | ISO 1210 | - | - | HB |
| Water absorption | 23°C/sat | ISO 62 | % | - | 5 |
| Moisture absorption | 23°C/50% r.h. | ISO 62 | % | - | 1.5 |
| Linear mould shrinkage | long. | ISO 294 | % | dry | 0.15 |
| Linear mould shrinkage | trans. | ISO 294 | % | dry | 0.9 |

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products.

Prospective users should determine the suitability of materials before adopting them on a commercial scale.

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