

Product Texts

30% Glass Reinforced, PA4T, Electro-friendly, Improved resistance to blistering during reflow - soldering process, Improved color stability

ISO 1043 PPA-GF30

ForTii® Ace JTX8 is the only polyamide grade in the world that secures, in all product designs, the JEDEC MSL 1 rating at all thicknesses. Ace JTX8 has the highest Tg available in polyamides (160°C) to satisfy various industry requirements like chemical resistance and high temperature thermal ageing. Ace JTX8 has extremely robust processing performance and allows 100% regrinding with high mechanical properties retention.

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|------------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 0.4 / * | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 1.2 / * | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|---------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 11000 / 11000 | MPa | ISO 527 |
| ^[C] Stress at break | 210 / 190 | MPa | ISO 527 |
| ^[C] Strain at break | 2.7 / 2.5 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 70 / 60 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | 65 / 55 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 10 / 8 | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 10 / 8 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 340 / * | °C | ISO 11357-1/-3 |
| ^[C] Glass transition temperature, 10°C/min | 150 / * | °C | ISO 11357-1/-2 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 320 / * | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 335 / * | °C | ISO 75-1/-2 |
| ^[C] Coeff. of linear therm. expansion, parallel | 18 / * | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 60 / * | E-6/K | ISO 11359-1/-2 |
| ^[C] Burning Behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 3.0 / * | mm | - |
| Yellow Card available | yes / * | - | - |

[C]: CAMPUS

| Electrical properties | dry / cond | Unit | Test Standard |
|---|---------------|-------|---------------|
| ISO Data | | | |
| ^[C] Volume resistivity | >1E13 / >1E13 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | * / >1E15 | Ohm | IEC 62631-3-2 |
| ^[C] Electric strength | 45 / 40 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 600 / - | - | IEC 60112 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|------------------------------------|------------|-------------------|----------------|
| ^[C] Water absorption | 4.8 / * | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 2 / * | % | Sim. to ISO 62 |
| ^[C] Density | 1460 / - | kg/m ³ | ISO 1183 |

[C]: CAMPUS

ForTii® Ace JTX8

PPA-GF30

Envalior

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets

Other text information

Injection molding

[Injection Molding Recommendations](#)