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Celanese
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# FRIANYL® A3 GF25 V0XI BK 7021/A

FRIANYL®

Car industry, Household appliances, Electrical devices.

## Product information

| | | |
|---|---|---|
| Resin Identification | PA66-GF25 FR(17) | ISO 1043 |
| Part Marking Code | >PA66-GF25 FR(17)< | ISO 11469 |
| Continuous Service Temperature | 115 °C | IEC 60216-1 |

## Rheological properties

| | dry/cond. | | |
|---|---|---|---|
| Moulding shrinkage, parallel | 0.4 / - | % | ISO 294-4, 2577 |
| Moulding shrinkage, normal | 0.6 / - | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | dry/cond. | | |
|---|---|---|---|
| Tensile modulus | 9700 / - | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 150 / - | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.4 / - | % | ISO 527-1/-2 |
| Flexural modulus | 9900 / - | MPa | ISO 178 |
| Flexural strength | 240 / - | MPa | ISO 178 |
| Flexural strain at failure | 2.75 / - | % | ISO 178 |
| Charpy impact strength, 23°C | 56 / - | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 8.7 / - | kJ/m² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 8.9 / - | kJ/m² | ISO 180/1A |
| Izod impact strength, 23°C | 45 / - | kJ/m² | ISO 180/1U |
| Poisson's ratio | 0.34 / -[C] | | |

[C]: Calculated

## Thermal properties

| | dry/cond. | | |
|---|---|---|---|
| Temperature of deflection under load, 1.8 MPa | 245 / * | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 250 / * | °C | ISO 75-1/-2 |

## Flammability

| | dry/cond. | | |
|---|---|---|---|
| Burning Behav. at 1.5mm nom. thickn. | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 1.6 / * | mm | IEC 60695-11-10 |
| Burning Behav. at thickness h | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.4 / * | mm | IEC 60695-11-10 |
| UL recognition | yes / * | | UL 94 |

## Physical/Other properties

| | dry/cond. | | |
|---|---|---|---|
| Humidity absorption, 2mm | 1 / * | % | Sim. to ISO 62 |
| Water absorption, 2mm | 3.9 / * | % | Sim. to ISO 62 |
| Density | 1580 / - | kg/m³ | ISO 1183 |

## Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 80 | °C |
| Drying Time, Dehumidified Dryer | 2 - 4 | h |
| Processing Moisture Content | ≤0.1 | % |

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| | | |
|---|---|---|
| Melt Temperature Optimum | 280 | °C |
| Min. melt temperature | 265 | °C |
| Max. melt temperature | 290 | °C |
| Screw tangential speed | ≤0.2 | m/s |
| Mold Temperature Optimum | 80 | °C |
| Min. mould temperature | 70 | °C |
| Max. mould temperature | 90 | °C |

## Characteristics

| | |
|---|---|
| Processing | Injection Moulding |
| Delivery form | Granules |
| Additives | Flame retardant |
| Special characteristics | Flame retardant, Heat stabilised or stable to heat |