

# FRIANYL® A3 GF30 V0 OR 2003/T

## FRIANYL®

Designed for Electrical applications requiring self-extinguishing properties combined with good mechanical performances, this grade meets the most stringent safety requirements for insulating materials.

### Product information

|                      |                   |           |
|----------------------|-------------------|-----------|
| Resin Identification | (PA66+PA6)-GF30   | ISO 1043  |
| Part Marking Code    | >(PA66+PA6)-GF30< | ISO 11469 |

### Rheological properties

|                       |           |                        |          |
|-----------------------|-----------|------------------------|----------|
|                       | dry/cond. |                        |          |
| Melt volume-flow rate | 50/*      | cm <sup>3</sup> /10min | ISO 1133 |
| Temperature           | 275/*     | °C                     |          |
| Load                  | 5/*       | kg                     |          |

### Typical mechanical properties

|                                      |                       |                   |              |
|--------------------------------------|-----------------------|-------------------|--------------|
|                                      | dry/cond.             |                   |              |
| Tensile modulus                      | 10000/-               | MPa               | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min     | 135/-                 | MPa               | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min     | 2/-                   | %                 | ISO 527-1/-2 |
| Charpy notched impact strength, 23°C | 6.5/-                 | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Poisson's ratio                      | 0.34/- <sup>[C]</sup> |                   |              |
| [C]: Calculated                      |                       |                   |              |

### Thermal properties

|                               |           |    |                |
|-------------------------------|-----------|----|----------------|
|                               | dry/cond. |    |                |
| Melting temperature, 10°C/min | 260/*     | °C | ISO 11357-1/-3 |

### Flammability

|                                      |           |       |                 |
|--------------------------------------|-----------|-------|-----------------|
|                                      | dry/cond. |       |                 |
| Burning Behav. at 1.5mm nom. thickn. | V-0/*     | class | 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. |                   |          |
| Density | 1430/-    | kg/m <sup>3</sup> | ISO 1183 |

### Injection

|                                 |          |
|---------------------------------|----------|
| Drying Recommended              | yes      |
| Drying Temperature              | 80 °C    |
| Drying Time, Dehumidified Dryer | 2 - 4 h  |
| Processing Moisture Content     | ≤0.1 %   |
| Melt Temperature Optimum        | 285 °C   |
| Min. melt temperature           | 270 °C   |
| Max. melt temperature           | 300 °C   |
| Screw tangential speed          | ≤0.2 m/s |
| Mold Temperature Optimum        | 80 °C    |
| Min. mould temperature          | 60 °C    |
| Max. mould temperature          | 100 °C   |

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### Characteristics

|                         |  |
|-------------------------|--|
| Processing              | Injection Moulding                                   |
| Delivery form           | Granules   |
| Additives               | Non-halogenated/Red phosphorous free flame retardant |
| Special characteristics | Flame retardant, Heat stabilised or stable to heat   |

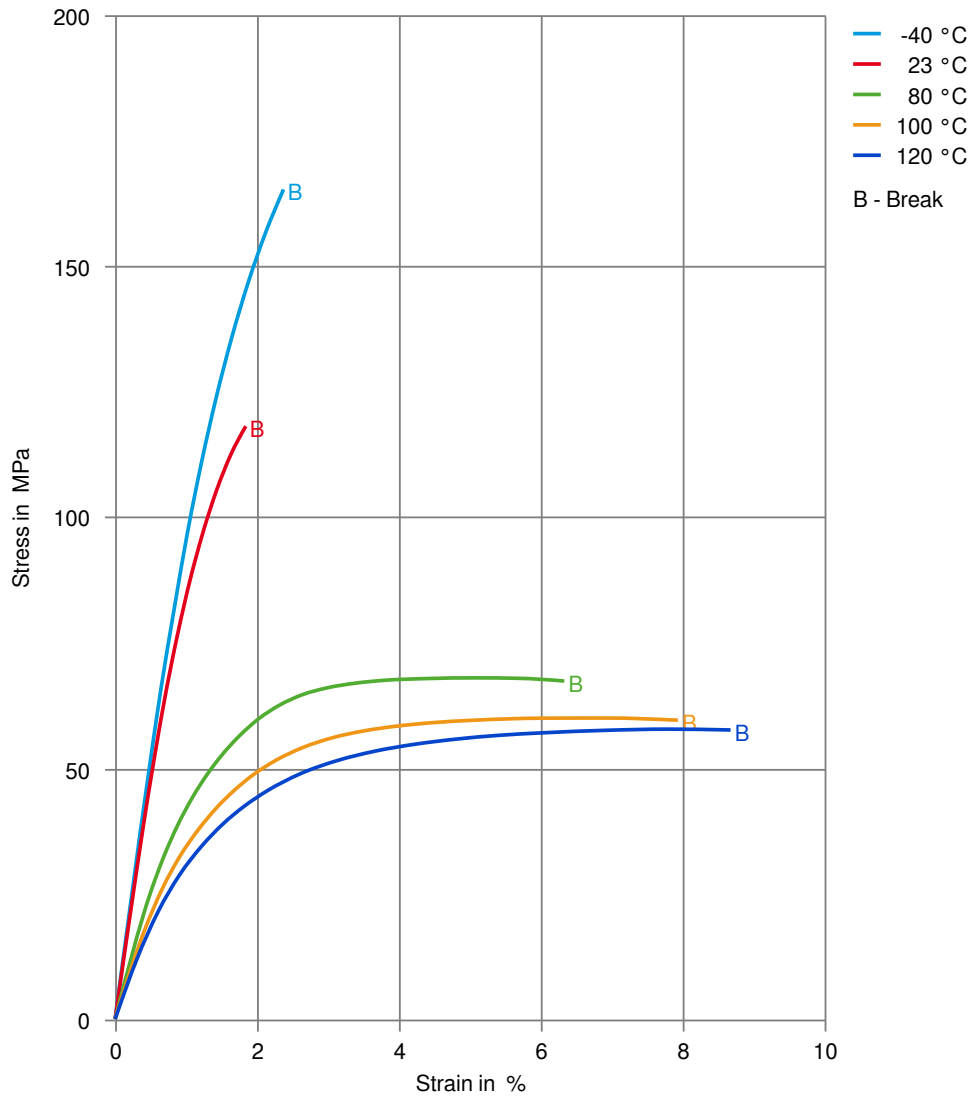
### Automotive

| OEM      | STANDARD   | ADDITIONAL INFORMATION                                   |
|----------|--|--|
| Renault  | UB22a, BB/YG, No Spec, Special Part Approval, See Your CE Account Manager. |  |
| Renault  | UB22b, No Spec, Special Part Approval, See Your CE Account Manager.        |  |
| Renault  | UB22c, No Spec, Special Part Approval, See Your CE Account Manager.        |  |
| Renault  | UB22d, No Spec, Special Part Approval, See Your CE Account Manager.        |  |
| VW Group | VW 50133   | *Best Fitting Grade To PA66-6-A, Not Officially Approved |

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### Stress-strain (dry)



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### Secant modulus-strain (dry)

