

CELANYL® A3 CF30 BK 9005

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Car industry, Household appliances, Electrical devices.

Product information

| | | |
|--------------------------------|-------------|-------------|
| Resin Identification | PA66-CF30 | ISO 1043 |
| Part Marking Code | >PA66-CF30< | ISO 11469 |
| Continuous Service Temperature | 100 °C | IEC 60216-1 |

Rheological properties

| | | | |
|------------------------------------|-----------|--------------------|-----------------|
| | dry/cond. | | |
| Viscosity number | 140/* | cm ³ /g | ISO 307, 1628 |
| Moulding shrinkage range, parallel | 0.1 - 0.4 | % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal | 0.5 - 0.9 | % | ISO 294-4, 2577 |

Typical mechanical properties

| | | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| | dry/cond. | | |
| Tensile modulus | 21500/- | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 245/- | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2/- | % | ISO 527-1/-2 |
| Charpy impact strength, 23°C | N/- | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 9/- | kJ/m ² | ISO 179/1eA |
| Ball indentation hardness, H 961/30 | 255/- | MPa | ISO 2039-1 |
| Poisson's ratio | 0.33/- ^[C] | | |

[C]: Calculated

Thermal properties

| | | | |
|--|-----------|----|----------------|
| | dry/cond. | | |
| Melting temperature, 10°C/min | 260/* | °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 250/* | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 250/* | °C | ISO 75-1/-2 |

Electrical properties

| | | | |
|--------------------|-----------|-------|---------------|
| | dry/cond. | | |
| Volume resistivity | 1.5/- | Ohm.m | IEC 62631-3-1 |

Physical/Other properties

| | | | |
|--------------------------|-----------|-------------------|----------------|
| | dry/cond. | | |
| Humidity absorption, 2mm | 1.3/* | % | Sim. to ISO 62 |
| Water absorption, 2mm | 6/* | % | Sim. to ISO 62 |
| Density | 1250/- | kg/m ³ | ISO 1183 |

Injection

| | |
|---------------------------------|----------|
| Drying Recommended | yes |
| Drying Temperature | 80 °C |
| Drying Time, Dehumidified Dryer | 2 - 4 h |
| Processing Moisture Content | ≤0.15 % |
| Melt Temperature Optimum | 295 °C |
| Min. melt temperature | 285 °C |
| Max. melt temperature | 305 °C |
| Screw tangential speed | ≤0.2 m/s |
| Mold Temperature Optimum | 100 °C |
| Min. mould temperature | 70 °C |

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Max. mould temperature

120 °C

Characteristics

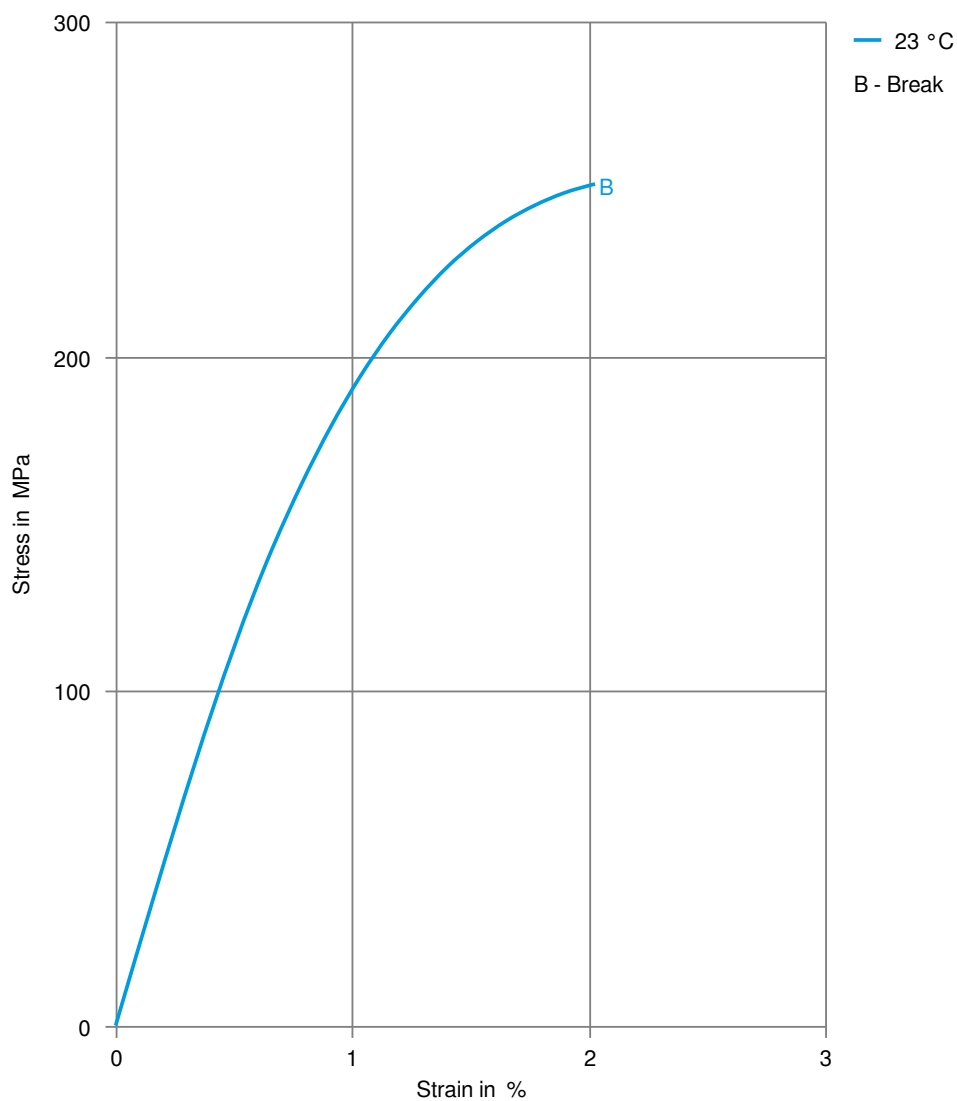
Processing

Injection Moulding

Special characteristics

Increased electrical conductivity, Static dissipative, Heat stabilised or stable to heat

Stress-strain (dry)



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Secant modulus-strain (dry)

