

# CELANYL® B3 GF30 E GY 7035/YG

## CELANYL®

### Product information

|                      |            |           |
|----------------------|------------|-----------|
| Resin Identification | PA6-GF30   | ISO 1043  |
| Part Marking Code    | >PA6-GF30< | ISO 11469 |

### Rheological properties

|                                    |             |                 |
|------------------------------------|-------------|-----------------|
| Moulding shrinkage range, parallel | 0.2 - 0.6 % | ISO 294-4, 2577 |
| Moulding shrinkage range, normal   | 0.6 - 1 %   | ISO 294-4, 2577 |

### Typical mechanical properties

|                                      |                         |                   |              |
|--------------------------------------|-------------------------|-------------------|--------------|
|                                      | dry/cond.               |                   |              |
| Tensile modulus                      | 9400 / -                | MPa               | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min     | 145 / -                 | MPa               | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min     | 2.5 / -                 | %                 | ISO 527-1/-2 |
| Charpy impact strength, 23°C         | 50 / -                  | kJ/m <sup>2</sup> | ISO 179/1eU  |
| Charpy notched impact strength, 23°C | 7 / -                   | 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           | 225 / *   | °C | ISO 11357-1/-3 |
| Vicat softening temperature, 50°C/h 10N | 215       | °C | ISO 306        |

### Flammability

|                                       |           |    |                |
|---------------------------------------|-----------|----|----------------|
|                                       | dry/cond. |    |                |
| Glow Wire Ignition Temperature, 1.5mm | 700 / -   | °C | IEC 60695-2-13 |

### Electrical properties

|                                       |     |  |           |
|---------------------------------------|-----|--|-----------|
| Comparative tracking index, 100 drops | 600 |  | IEC 60112 |
|---------------------------------------|-----|--|-----------|

### Physical/Other properties

|                          |           |                   |                |
|--------------------------|-----------|-------------------|----------------|
|                          | dry/cond. |                   |                |
| Humidity absorption, 2mm | 1.8 / *   | %                 | Sim. to ISO 62 |
| Water absorption, 2mm    | 6.3 / *   | %                 | Sim. to ISO 62 |
| Density                  | 1380 / -  | kg/m <sup>3</sup> | ISO 1183       |

### Injection

|                          |        |
|--------------------------|--------|
| Melt Temperature Optimum | 250 °C |
|--------------------------|--------|

### Characteristics

|                         |                                                              |
|-------------------------|--------------------------------------------------------------|
| Processing              | Injection Moulding                                           |
| Delivery form           | Granules                                                     |
| Additives               | Low halide content                                           |
| Special characteristics | Heat stabilised or stable to heat, Laser Markable, High Flow |