

TECHNICAL DATA SHEET

TECHNYL C 218 V30 BK 9262 D

(Previously DOMAMID 6G30H2 BK99262)

Polyamide 6, 30% glass fiber reinforced, heat-aging stabilized, for injection molding

General

|                       |                       |
|-----------------------|-----------------------|
| Feature               | Heat-aging stabilized |
| Polymer type          | PA6 (Polyamide 6)     |
| Processing technology | Injection molding     |
| Certification         | RoHS                  |

Product identification

|                       |                      |
|-----------------------|----------------------|
| ISO 1043 abbreviation | PA6 (GF-30)          |
| ISO 16396 designation | PA6,GF30,M1H,S14-100 |

|                              | Condition      | Standard | Unit              | Value     |
|------------------------------|----------------|----------|-------------------|-----------|
| Density                      |                | ISO 1183 | g/cm <sup>3</sup> | 1.38      |
| Humidity absorption          | T=23°C, 50% RH | ISO 62   | %                 | 1.9 - 2.4 |
| Water absorption, saturation |                |          | %                 | 6.5       |

Physical properties

| Mechanical properties                 |          |              |                   |             | dam / cond.* |
|---------------------------------------|----------|--------------|-------------------|-------------|--------------|
| Tensile modulus                       | 1 mm/min | ISO 527-1/-2 | MPa               | 9800 / 5000 |              |
| Stress at break                       | 5mm/min  | ISO 527-1/-2 | MPa               | 160 / 90    |              |
| Strain at break                       | 5mm/min  | ISO 527-1/-2 | %                 | 3 / 7       |              |
| Flexural modulus, ISO 178             | 2 mm/min | ISO 178      | MPa               | 8200 / 4500 |              |
| Flexural strength, ISO 178            | 2 mm/min | ISO 178      | MPa               | 245 / 140   |              |
| Charpy impact strength, +23°C         | +23°C    | ISO 179/1eU  | kJ/m <sup>2</sup> | 65 / 75     |              |
| Charpy notched impact strength, +23°C | +23°C    | ISO 179/1eA  | kJ/m <sup>2</sup> | 9 / 19      |              |
| Izod impact strength, +23°C           | +23°C    | ISO 180/1U   | kJ/m <sup>2</sup> | 55 / -      |              |
| Izod notched impact strength, +23°C   | +23°C    | ISO 180/1A   | kJ/m <sup>2</sup> | 8.5 / -     |              |

Thermal properties

|                                          |          |             |    |     |
|------------------------------------------|----------|-------------|----|-----|
| Melting temperature, 10°C/min            |          | ISO 11357-1 | °C | 221 |
| Temp. of deflection under load, 1.80 MPa | 1.80 MPa | ISO 75      | °C | 200 |

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|-----------|----------|------|-------|
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Electrical properties

|                     |  |               |       |        |
|---------------------|--|---------------|-------|--------|
| Volume resistivity  |  | IEC 62631-3-1 | ohm.m | 1E+016 |
| Surface resistivity |  | IEC 62631-3-1 | ohm   | 1E+014 |

Burning behaviour

|                                     |         |           |  |      |
|-------------------------------------|---------|-----------|--|------|
| Flammability, 0.75 mm               | 0.75 mm | UL 94     |  | HB   |
| Burning rate, FMVSS, Thickness 1 mm |         | FMVSS 302 |  | <100 |

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for black products.  
\*: conditioned according to ISO 1110

Processing conditions

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Drying temperature/time       | 75-85°C / 2-4h (with dew point of dried air < -30°C) |
| Recommended melt temperature  | 235 - 275 °C                                         |
| Recommended mould temperature | 80 - 120 °C                                          |

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

Disclaimer

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