

TECHNICAL DATA SHEET

TECHNYL C 218 V30 BK 9308 D

(Previously DOMAMID 6G30H2 BK99308)

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

General

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

Product identification

|                       |                      |
|-----------------------|----------------------|
| ISO 1043 abbreviation | PA6,GF30             |
| ISO 16396 designation | PA6,GF30,M1H,S14-095 |

Physical properties

|         | Condition | Standard | Unit              | Value |
|---------|-----------|----------|-------------------|-------|
| Density |           | ISO 1183 | g/cm <sup>3</sup> | 1.38  |

Mechanical properties

|                                       |          |              |                   | dam / cond.* |
|---------------------------------------|----------|--------------|-------------------|--------------|
| Tensile modulus                       | 1 mm/min | ISO 527-1/-2 | MPa               | 9500 / -     |
| Stress at break                       | 5 mm/min | ISO 527-1/-2 | MPa               | 160 / -      |
| Strain at break                       | 5 mm/min | ISO 527-1/-2 | %                 | 3.5 / -      |
| Flexural modulus, ISO 178             | 2 mm/min | ISO 178      | MPa               | 8400 / -     |
| Flexural strength, ISO 178            | 2 mm/min | ISO 178      | MPa               | 210 / -      |
| Charpy impact strength, +23°C         | +23°C    | ISO 179/1eU  | kJ/m <sup>2</sup> | 70 / -       |
| Charpy notched impact strength, +23°C | +23°C    | ISO 179/1eA  | kJ/m <sup>2</sup> | 10 / -       |
| Izod impact strength, +23°C           | +23°C    | ISO 180/1U   | kJ/m <sup>2</sup> | 60 / -       |
| Izod notched impact strength, +23°C   | +23°C    | ISO 180/1A   | kJ/m <sup>2</sup> | 9.5 / -      |

Thermal properties

|                               |  |             |    |     |
|-------------------------------|--|-------------|----|-----|
| Melting temperature, 10°C/min |  | ISO 11357-1 | °C | 221 |
|-------------------------------|--|-------------|----|-----|

Electrical properties

|                     |  |               |       |        |
|---------------------|--|---------------|-------|--------|
| Volume resistivity  |  | IEC 62631-3-1 | ohm.m | 1E+015 |
| Surface resistivity |  | IEC 62631-3-1 | ohm   | 1E+013 |

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| Condition | Standard | Unit | Value |
|-----------|----------|------|-------|
|-----------|----------|------|-------|

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  | 240 - 270 °C                                         |
| Recommended mould temperature | 80 - 100 °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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