

TECHNICAL DATA SHEET

TECHNYL C 219 MX30 NC  
(Previously DOMAMID 6T30H1 NC)

Polyamide 6, 30% mineral filler, heat-aging stabilized, for injection moulding

General

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

Product identification

|                       |                      |
|-----------------------|----------------------|
| ISO 1043 abbreviation | PA6-MD30             |
| ISO 16396 designation | PA6,MD30,M1H,S14-060 |

|                  | Condition | Standard | Unit               | Value |
|------------------|-----------|----------|--------------------|-------|
| Density          |           | ISO 1183 | g/cm <sup>3</sup>  | 1.38  |
| Viscosity number | 96% H2SO4 | ISO 307  | cm <sup>3</sup> /g | 145   |

Physical properties

| Mechanical properties                 |          |              |                   | dam / cond.* |
|---------------------------------------|----------|--------------|-------------------|--------------|
| Tensile modulus                       | 1 mm/min | ISO 527-1/-2 | MPa               | 6000 / 3700  |
| Stress at break                       | 5 mm/min | ISO 527-1/-2 | MPa               | 70 / 50      |
| Strain at break                       | 5 mm/min | ISO 527-1/-2 | %                 | 7 / 20       |
| Flexural modulus, ISO 178             | 2 mm/min | ISO 178      | MPa               | 5800 / -     |
| Flexural strength, ISO 178            | 2 mm/min | ISO 178      | MPa               | 110 / -      |
| Charpy impact strength, +23°C         | +23°C    | ISO 179/1eU  | kJ/m <sup>2</sup> | 40 / 80      |
| Charpy notched impact strength, +23°C | +23°C    | ISO 179/1eA  | kJ/m <sup>2</sup> | 5 / 10       |
| Izod impact strength, +23°C           | +23°C    | ISO 180/1U   | kJ/m <sup>2</sup> | 35 / 75      |
| Izod notched impact strength, +23°C   | +23°C    | ISO 180/1A   | kJ/m <sup>2</sup> | 5 / 10       |

Thermal properties

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

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|                       | Condition | Standard      | Unit  | Value  |
|-----------------------|-----------|---------------|-------|--------|
| Electrical properties |           |               |       |        |
| Volume resistivity    |           | IEC 62631-3-1 | ohm.m | 1E+013 |
| Surface resistivity   |           | IEC 62631-3-1 | ohm   | 1E+013 |

Burning behaviour

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

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored 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 - 280 °C                                          |
| Recommended mould temperature | 90 - 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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