

## TECHNICAL DATA SHEET

# TECHNYL A 236 V15 BK

(Previously DOMAMID 66G15I1 504 BK)

Polyamide 66, 15% glass fiber reinforced, impact modified, for injection moulding

### General

|                       |                     |
|-----------------------|---------------------|
| Feature               | Impact modified     |
| Polymer type          | PA66 (Polyamide 66) |
| Processing technology | Injection molding   |
| Certification         | RoHS                |

### Product identification

|                       |                        |
|-----------------------|------------------------|
| ISO 1043 abbreviation | PA66-I-GF15            |
| ISO 16396 designation | PA66-I,GF15,M1,S14-050 |

|                  | Condition | Standard | Unit               | Value |
|------------------|-----------|----------|--------------------|-------|
| Density          |           | ISO 1183 | g/cm <sup>3</sup>  | 1.2   |
| 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               | 5000 / - |
| Stress at break                       | 5 mm/min | ISO 527-1/-2 | MPa               | 100 / -  |
| Strain at break                       | 5 mm/min | ISO 527-1/-2 | %                 | 7 / -    |
| Flexural modulus, ISO 178             | 2 mm/min | ISO 178      | MPa               | 4500 / - |
| Flexural strength, ISO 178            | 2 mm/min | ISO 178      | MPa               | 170 / -  |
| Charpy impact strength, +23°C         | +23°C    | ISO 179/1eU  | kJ/m <sup>2</sup> | 60 / -   |
| Charpy notched impact strength, +23°C | +23°C    | ISO 179/1eA  | kJ/m <sup>2</sup> | 11 / -   |
| 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> | 11 / -   |

|  | Condition    | Standard    | Unit | Value |
|--|--------------|-------------|------|-------|
| <b>Thermal properties</b>                |              |             |      |       |
| Melting temperature, 10°C/min            |              | ISO 11357-1 | °C   | 262   |
| Temp. of deflection under load, 0.45 MPa | 0.45 MPa     | ISO 75      | °C   | 245   |
| Temp. of deflection under load, 1.80 MPa | 1.80 MPa     | ISO 75      | °C   | 230   |
| Vicat softening temperature              | 50°C/h - 50N | ISO 306     | °C   | 245   |

### 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  | 270 - 290 °C  |
| Recommended mould temperature | 90 - 110 °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.*