

## TECHNYL® A 248 V33 BLACK 21 N

Product Datasheet - June 2007

### Description

Polyamide 66, reinforced with 33% of glass fibre, heat stabilized, with high impact resistance, for injection moulding .

### Product Applications

TECHNYL A 248 V33 offers an excellent compromise in stiffness and impact resistance, even at low temperatures .This grade is particularly recommended for the moulding of parts which are subjected to high thermo-mechanical stresses rates, such as :

- under bonnet automotive covers,
- housings for electro-mechanical hand tools,
- sports and leisure : roller-skates frames

This product is available in black.

### Processing

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,2% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions :

Barrel temperatures :

- feed zone 250 - 270°C
- compression zone 270 - 280°C
- front zone 280- 290°C

Mould temperatures : 80 at 100°C

### Safety

Please refer to the Safety Data Sheet QRK62FQL8FS



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The values of properties are for black grade.

| Properties                                                                | Standards        | Unit     | Values      |         |
|---------------------------------------------------------------------------|------------------|----------|-------------|---------|
|                                                                           |                  |          | d.a.m*.     | Cond.** |
| Physical                                                                  |                  |          |             |         |
| Water absorption (24 h at 23°C)                                           | ISO 62           | %        | 1.25        | -       |
| Density                                                                   | ISO 1183-A       | g/cm3    | 1.39        | -       |
| Molding shrinkage Parallel (1) (RHODIA-EP)                                | RHODIA-EP        | %        | 0.5         | -       |
| Molding shrinkage normal or perpendicular (1) (Rhodia EP)                 | RHODIA-EP        | %        | 0.70        | -       |
| Molding Shrinkage Isotropy                                                | RHODIA-EP        |          | 0.71        | -       |
| Mechanical                                                                |                  |          |             |         |
| Tensile modulus                                                           | ISO 527 type 1 A | MPa      | 8500        | 6000    |
| Tensile strength at yield                                                 | ISO 527 type 1 A | MPa      | 130         | 100     |
| Elongation at yield                                                       | ISO 527 type 1 A | %        | 4           | 8       |
| Elongation at break                                                       | ISO 527 type 1 A | %        | 4           | 8       |
| Tensile strength at break                                                 | ISO 527 type 1 A | MPa      | 130         | 100     |
| Flexural modulus                                                          | ISO 178          | MPa      | 7800        | 5500    |
| Charpy notched impact strength                                            | ISO 179/1eA      | kJ/m2    | 14          | 22      |
| Charpy unnotched impact strength                                          | ISO 179/1eU      | kJ/m2    | 80          | 90      |
| Izod notched impact strength                                              | ISO 180/1A       | kJ/m2    | 15          | 18      |
| Thermal                                                                   |                  |          |             |         |
| Melting Temperature                                                       | ISO 11357        | °C       | 263         | -       |
| Heat deflection temperature, 1,8 Mpa                                      | ISO 75/Af        | °C       | 248         | -       |
| Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C) | ISO 11359        | E-5 / °C | 2.5         | -       |
| Electrical                                                                |                  |          |             |         |
| Dissipation factor                                                        | IEC 60250        |          | 0.01        | 0.06    |
| Volume resistivity                                                        | IEC 60093        | Ohm.cm   | 10E14       | 10E11   |
| Surface resistivity                                                       | IEC 60093        | Ohm      | 10E14       | 10E12   |
| Dielectric strength                                                       | IEC 60243        | kV/mm    | 34          | 29      |
| Comparative tracking index sol. A                                         | IEC 60112        | Volt     | 450         | 475     |
| Comparative tracking index sol. B                                         | IEC 60112        | Volt     | 325         | -       |
| Specific                                                                  |                  |          |             |         |
| IMDS id number                                                            | Rhodia           |          | 4666154 / 2 | -       |

## Identification Code : >PA66-GF33<

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d.a.m\*.

Cond.\*\*



Engineering Plastics

