

**Polycarbonate black lubricated with 20% glass fibre reinforcement and V-0.**

TECHNICAL DATA SHEET

|          |                 | STANDARD | UNIT               | DRY  | CONDITIONED |
|----------|-----------------|----------|--------------------|------|-------------|
| GENERALS | Density         | ISO 1183 | gr/cm <sup>3</sup> | 1,35 |             |
|          | Melt Flow Index | ISO 1133 | gr/10 min.         | -    |             |
|          | Humidity Pelets | ISO 1110 | %                  | 0,2  |             |
|          | Hardness        | SHORE D  | Points             | 80   |             |
|          | Mold Shrinkage  | -        | %                  | -    |             |

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|----------------|---------------------|-------------------|-------------------|------|-------------|
| MECHANICAL     | Tensile Strength    | ISO 527           | N/mm <sup>2</sup> | 110  |             |
|                | Elongation at break | ISO 527           | %                 | 5    |             |
|                | Tensile Modulus     | ISO 527           | N/mm <sup>2</sup> | 5500 |             |
|                | Charpy Impact       | 23 °C ISO 179     | Kj/m <sup>2</sup> | NB   |             |
|                |                     | -40 °C ISO 179    | Kj/m <sup>2</sup> | -    |             |
|                | Charpy Impact       | 23 °C ISO 179     | Kj/m <sup>2</sup> | 9    |             |
| -40 °C ISO 179 |                     | Kj/m <sup>2</sup> | -                 |      |             |

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|------------|-------------------------|----------|-------|-----|-------------|
| ELECTRICAL | Surface Resistivity     | IEC 93   | Ohm   | -   |             |
|            | Dielectric strength     | IEC 243  | Kv/mm | -   |             |
|            | Tracking index (C.T.I.) | IEC 112  | Kv/mm | -   |             |

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|---------|--------------------------------|----------------|----------------|-----|-------------|
| THERMAL | Deflection Temp.<br>Under Load | 0,4 N ISO 75/A | °C             | 145 |             |
|         |                                | (H.D.T.)       | 1,8 N ISO 75/A | °C  | 140         |
|         | VICAT Temperatura              | ISO 306        | °C             | -   |             |

- The values provided in this data sheet correspond to our knowledge. All products must be subjected to in company test by the user before application.
- These data do not release you from the obligation to test our products as to their suitability for the intended processes and final use.
- These data may not valid such material used in combination with any other materials or additives or in - any process.
- Triesa assumes no liability and makes no warranties of any kind, expressed or implied how to use this information data.
- UL measurements are done in our lab according to this norm.

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|--------|------------------------|-------------|---------|-------------|
| OTHERS | UL - Flammability      | UL-94       | -       | V-0         |
|        | Glow Wire              | IEC 695     | °C      | 960         |
|        | Fammability speed      | FMV 302     | mm/min. | <100        |
|        | Ashes                  | Triesa Test | %       | ~20         |
|        | Water absorption (24h) | ISO 62      | %       | -           |
|        | Lubricated             |             |         | YES         |

RECOMMENDED VALUES

|            |                        |               |
|------------|------------------------|---------------|
| PROCESSING | Drying Material        | 2h - 4h 120°C |
|            | Mold. Temperature      | 70°C-90°C     |
|            | Processing Temperature | 260°C-280°C   |
|            | Hopper Temperature     | 245°C-255°C   |
|            | Middle Temperature     | 265°C-270°C   |
|            | Nozzle Temperature     | 275°C-280°C   |
|            | Hold Pressure          | 70 - 110 Mpa  |

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SOURCE: Triesa Quality Control; Last update: 12/05/2020