

# TABOREN-PH 52 G 30-073

## Description

**TABOREN-PH 52 G 30-073** is a compound based on polypropylene homopolymer filled with 30% of short glass fibers, stabilized with a standard antioxidant package. It is designed for injection moulding technology and used in many industrial fields with stress put on excellent processability and good surface performance.

The grade is available in black colour.



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|            | Properties                        | Test method           | Unit              | Typical value |
|------------|-----------------------------------|-----------------------|-------------------|---------------|
| Physical   | Melt Flow Index (230°C / 2,16 kg) | ISO 1133              | g/10 min          | 5,0           |
|            | Glass Fibres Content              |                       | %                 | 27-33         |
|            | Carbon black Content              |                       | %                 | 1,8- 2,2      |
|            | Density                           | ISO 1183-1            | g/cm <sup>3</sup> | 1,16          |
| Mechanical | Tensile Strength at Yield         | ISO 527               | MPa               | 85            |
|            | Charpy Notched Impact Strength    | ISO 179-1/1eA<br>23°C | KJ/m <sup>2</sup> | 8             |
|            | Charpy Unnotched Impact Strength  | ISO 179-1/1eU<br>23°C | KJ/m <sup>2</sup> | 45            |
|            | Elongation at Break               | ISO 527               | %                 | 6             |
|            | Flexural Modulus                  | ISO 178               | MPa               | 6300          |
| Thermal    | VICAT Softening Temperature       | ISO 306<br>method A50 | °C                | 165           |

Notes\* The above values are typical for this material, not standardized.

# TABOREN-PH 52 G 30-073



## Processing Guidelines

### Drying

**TABOREN-PH 52 G 30-073** is recommended to be pre-dried before processing. A guideline is to dry the grade at 80°C for 3 hrs.

### Machine Requirements:

**TABOREN-PH 52 G 30-073** can be processed without problems on standard moulding machines.

The following moulding parameters are to be used as guidelines:

Melt Temperature: 200 – 250°C  
Injection Speed: Medium  
Injection Pressure: 90 – 130 MPa  
Hold-on Pressure: >40% of injection pressure  
Mould Temperature: 30 - 50°C

### Storage and handling

**TABOREN-PH 52 G 30-073** should be stored in dry conditions at temperatures below 50°C and protected from UV light. Improper storage may initiate degradation resulting in odour generation, colour changes and could have negative effects on the physical properties of the product.

### Safety

**TABOREN-PH 52 G 30-073** is not classified as a dangerous preparation. A Safety Datasheet is available on request. Please contact your SILON representative for more details on various aspects of safety.

### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning.



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| Properties |                                   | Test method           | Unit              | Typical value |
|------------|-----------------------------------|-----------------------|-------------------|---------------|
| Physical   | Melt Flow Index (230°C / 2,16 kg) | ISO 1133              | g/10 min          | 5.0           |
|            | Glass Fibres Content              |                       | %                 | 27-33         |
|            | Carbon black Content              |                       | %                 | 1,8- 2,2      |
|            | Density                           | ISO 1183-1            | g/cm <sup>3</sup> | 1.16          |
| Mechanical | Tensile Strength at Yield         | ISO 527               | MPa               | 85            |
|            | Charpy Notched Impact Strength    | ISO 179-1/1eA<br>23°C | KJ/m <sup>2</sup> | 8             |
|            | Charpy Unnotched Impact Strength  | ISO 179-1/1eU<br>23°C | KJ/m <sup>2</sup> | 45            |
|            | Elongation at Break               | ISO 527               | %                 | 6             |
|            | Flexural Modulus                  | ISO 178               | MPa               | 6300          |
| Thermal    | VICAT Softening Temperature       | ISO 306<br>method A50 | °C                | 165           |

Notes\* The above values are typical for this material, not standardized.

|              |                                  |                        |                   |           |
|--------------|----------------------------------|------------------------|-------------------|-----------|
| Physical     | Melt Flow Rate (230°C, 2.16 kg)  | ISO 1133               | g/10 min          | 5         |
|              | Glass Fibres content             |                        | %                 | 27 - 33   |
|              | Carbon Black Content             |                        | %                 | 1.8 - 2.2 |
|              | Density                          | ISO 1183-1             | g/cm <sup>3</sup> | 1.16      |
|              | Tensile Strength                 | ISO 527                | MPa               | 85        |
|              | Elongation at Break              | ISO 527                | %                 | 4         |
|              | Flexural Modulus                 | ISO 178                | MPa               | 6 300     |
| Impact       | CHARPY Notched Impact Strength   | ISO 179-1/1eA<br>23°C  | kJ/m <sup>2</sup> | 8         |
|              | CHARPY Unnotched Impact Strength | ISO 179-1/1eU<br>23°C  | kJ/m <sup>2</sup> | 40        |
| Thermal      | VICAT Softening Temperature      | ISO 306, method<br>A50 | °C                | 165       |
| Flammability | Flame Rating UL                  | UL94                   | °C                | HB        |

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