

# TABOREN-PH 41 C 40



## Description

**TABOREN-PH 41 C 40** is a compound based on homopolymer polypropylene filled with 40% of calcium carbonate, stabilized with a standard antioxidant additive package. It is suitable for extrusion and blow moulding applications in many industrial fields with stress put on excellent processability and good surface performance.

The grade is available in natural colour.



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|                   |                                   |                       |                   |      |
|-------------------|-----------------------------------|-----------------------|-------------------|------|
| <b>Physical</b>   | Melt Flow Index (230°C / 2,16 kg) | ISO 1133              | g/10 min          | 3,0  |
|                   | Density                           | ISO 1183-1            | g/cm <sup>3</sup> | 1,12 |
| <b>Mechanical</b> | Tensile Strength at Yield         | ISO 527               | MPa               | 22   |
|                   | Charpy Notched Impact Strength    | ISO 179-1/1eA<br>23°C | KJ/m <sup>2</sup> | 4    |
|                   | Charpy Unnotched Impact Strength  | ISO 179-1/1eU<br>23°C | KJ/m <sup>2</sup> | 55   |
|                   | Elongation at Break               | ISO 527               | %                 | 70   |
|                   | Flexural Modulus                  | ISO 178               | MPa               | 2600 |
| <b>Thermal</b>    | VICAT Softening Temperature       | ISO 306<br>method A50 | °C                | 153  |

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

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## Processing Guidelines

### Drying

**TABOREN-PH 41 C 40** 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 41 C 40** can be processed without problems on all extrusion lines suitable for production of PP profiles and pipes.

### Screw:

Abrasion protected coating of the screw is recommended due to the content of filler.

Length: 25D – 30D

### Heating:

At least three separately controllable heating zones. The cylinder flange and adapter must be able to be heated.

## Temperature Profile:

|          |             |
|----------|-------------|
| Hopper:  | 15 – 40°C   |
| Zone 1:  | 180 – 190°C |
| Zone 2:  | 190 – 200°C |
| Zone 3:  | 200 – 210°C |
| Adapter: | 200 – 210°C |
| Die:     | 200 – 210°C |
| Melt:    | 200 – 210°C |



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## Storage and handling

**TABOREN-PH 41 C 40** 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 41 C 40** is not classified as a dangerous preparation. A Safety Datasheet is available on request. Please contact your SILON representative for more details.

## Recycling

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



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