

TABOREN-PC 41 G 30

Description

TABOREN-PC 41 G 30 is a compound based on polypropylene copolymer filled with 30% of short glass fiber, stabilized with a basic antioxidant 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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| | Properties | Test method | Unit | Typical value |
|------------|-----------------------------------|-----------------------|-------------------|---------------|
| Physical | Melt Flow Index (230°C / 2,16 kg) | ISO 1133 | g/10 min | 5,0 |
| | Density | ISO 1183-1 | g/cm ³ | 1,130 |
| Mechanical | Tensile Strength at Yield | ISO 527 | MPa | 70 |
| | Charpy Notched Impact Strength | ISO 179-1/1eA 23°C | KJ/m ² | 10 |
| | Charpy Unnotched Impact Strength | ISO 179-1/1eU 23°C | KJ/m ² | 35 |
| | Elongation at Break | ISO 527 | % | 4 |
| | Flexural Modulus | ISO 178 | MPa | 5500 |
| Thermal | VICAT Softening Temperature | ISO 306 method A50 | °C | 164 |

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

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Processing Guidelines

Drying

TABOREN-PC 41 G 30 is recommended to be pre-dried before processing. A guideline is to dry the grade at 80°C for 3 hrs.

Machine Requirements:

TABOREN-PC 41 G 30 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-PC 41 G 30 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-PC 41 G 30 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, recovery and disposal of the product or see our web pages www.silon.eu

Recycling

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



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