

TABOREN-PH 51 G 40

Description

TABOREN-PH 51 G 40 is a compound based on homopolymer polypropylene filled with 40% of short glass fibers, stabilized with a basic 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 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	6,0
	Density	ISO 1183-1	g/cm ³	1,23
Mechanical	Tensile Strength at Yield	ISO 527	MPa	100
	Charpy Notched Impact Strenght	ISO 179-1/1eA 23°C	KJ/m ²	8
	Charpy Unnotched Impact Strenght	ISO 179-1/1eU 23°C	KJ/m ²	45
	Elongation at Break	ISO 527	%	5
	Flexural Modulus	ISO 178	MPa	7700
Thermal	VICAT Softening Temperature	ISO 306 method A50	°C	166

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

TABOREN-PH 51 G 40

Processing Guidelines

Drying

TABOREN-PH 51 G 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 51 G 40 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 51 G 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 51 G 40 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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