

TABOREN-PC 32 G 20

Description

TABOREN-PC 32 G 20 is a compound based on polypropylene random copolymer filled with 20% of short glass fibres, stabilized with a standard antioxidant additive package. It is suitable for extrusion of three-layer pressure pipes for drinking water distribution with stress put on excellent mechanical properties. The grade is available in natural colour.



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Physical	Melt Flow Index (230°C / 5 kg)	ISO 1133	g/10 min	1
	Density	ISO 1183-1	g/cm ³	1,04
Mechanical	Tensile Strength at Yield	ISO 527	MPa	52
	Charpy Notched Impact Strength	ISO 179-1/1eA 23°C	KJ/m ²	12
	Charpy Unnotched Impact Strength	ISO 179-1/1eU 23°C	KJ/m ²	45
	Elongation at Break	ISO 527	%	6
	Flexural Modulus	ISO 178	MPa	2800
Thermal	VICAT Softening Temperature	ISO 306 method A50	°C	140
Flammability	Flame Rating UL	UL 94	°C	HB

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

TABOREN-PC 32 G 20



Processing Guidelines

Drying

TABOREN-PC 32 G 20 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 32 G 20 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 glass.

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 32 G 20 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 32 G 20 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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Physical	Melt Flow Index (230°C / 5 kg)
	Density
Mechanical	Tensile Strength at Yield
	Charpy Notched Impact Strength
	Charpy Unnotched Impact Strength
	Elongation at Break
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Thermal	VICAT Softening Temperature
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Standardized.

Physical	Melt Flow Index (230°C, 2.16)
	Density
Mechanical	Tensile Stress at Yield
	Elongation at Break
	Flexural Modulus
Impact	CHARPY Notched Impact Strength
	CHARPY Unnotched Impact Strength
Thermal	VICAT Softening Temperature
Flammability	Flame Rating UL

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