

TECHNICAL DATA SHEET

POLYPROPYLENE TATREN HT 3 06

Homopolymer for weaving tapes

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

DESCRIPTION

TATREN HT 3 06 is a homopolymer of good processing stability and it can be processed at high throughput. Additive package of this grade provides low water carry over during production of tapes. **TATREN HT 3 06** is characterised by exceptionally high mechanical properties and high stiffness.

APPLICATIONS

TATREN HT 3 06 is intended for production of high tenacity weaving tapes and monofilaments. It is well suitable to produce PP fabrics for big-bags production, carpet backing, ropes and marine ropes, twines etc. This grade can be used also for extrusion, sheet extrusion and thermoforming, injection moulding and compounding.

TATREN HT 3 06 is suitable for food contact. The product complies with Food Contact Regulations. The grade is suitable for manufacturing of pharmaceutical packing-product.

PROPERTIES

	Test method	Unit	Typical value
MFR (230 °C/2.16 kg)	ISO 1133-1	g/10 min	3.0
Tensile stress at yield *	ISO 527-1,2	MPa	36
Tensile strain at yield *	ISO 527-1,2	%	8.5
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1900
Flexural modulus *	ISO 178	MPa	1900
Izod impact strength (notched, 23 °C) *	ISO 180/A	kJ/m ²	6
HDT (0.45 MPa) *	ISO 75-1,2	°C	102
Rockwell hardness *	ISO 2039/2	R scale	105

Typical properties, not to be used as specification.

* Average mechanical property values of several measurements carried out on standard injection-moulded test specimens prepared in accordance with ISO 1873-2.

PROCESSING

TATREN HT 3 06 can be processed on standard extrusion machines. Recommended processing temperatures are 230 - 260 °C.

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STORAGE AND HANDLING

Pellets are packed in 25 kg PE-LD bags and transported on stretch or shrink-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are available as well. We use adhesive between the bags in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred method is to lift the bag at first without rotation. Transportation in a road silo or rail silo is also available. For more detailed information please contact SLOVNAFT and MOL Petrochemicals sales representative.

Since polypropylene is a combustible substance, the fire safety rules applicable for combustible materials in warehouses and store rooms should be observed.

If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During the storage polypropylene should not be exposed to UV radiation and temperatures above 40°C. Producer does not take responsibility for any damages caused by adverse storage.

REACH STATEMENT

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered. SLOVNAFT, a.s. is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time PP TATREN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

SAFETY

See MSDS.

RECYCLING

Polypropylene resins are suitable for recycling using modern recycling methods. In-house production waste should be kept clean to facilitate direct recycling.

DISCLAIMER

The information provided in this publication has been compiled to the best of our present knowledge. However, in view of the various applications of polypropylene resins and the equipment used, the processing conditions may differ. The recommendations and data herein are to be construed as informational only and do not relieve users from carrying out their own tests and experiments prior to processing in order to check suitability for a specific use. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Our products are under continuous development, therefore we reserve the right to change the information presented in this brochure at our own discretion. The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

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