

TWO COLOURS



ONE DIRECTION

Polypropylene

**TATREN HM 50 46**

Homopolymer for injection moulding

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### Description

**TATREN HM 50 46** is controlled rheology homopolymer of high fluidity and narrow molecular weight distribution. This grade contains nucleating and antistatic agent. **TATREN HM 50 46** is characterised by very good mechanical properties, good dimensional stability and excellent stiffness. It has higher crystallisation temperature which allows good de-moulding at higher temperature and shorter moulding cycles.

### Applications

**TATREN HM 50 46** is intended for thin wall injection moulding of household and garden articles like containers, storage boxes, bowls, buckets, lids, trays, caps, boxes for food packaging, media boxes, flower pots, garden furniture and other general purpose articles. This grade can be used in mixtures with TATREN impact copolymers. Usage of **TATREN HM 50 46** for compounding is possible as well.

**TATREN HM 50 46** is suitable for food contact. The product complies with Food Contact Regulations.

### Properties

	Test method	Unit	Typical value
MFR (230 °C/2.16 kg)	ISO 1133	g/10 min	50
Tensile strength at yield *	ISO 527-1,2	MPa	37
Tensile elongation at yield *	ISO 527-1,2	%	9
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1950
Flexural modulus *	ISO 178	MPa	1800
Izod impact strength (notched, 23 °C) *	ISO 180/1A	kJ/m <sup>2</sup>	2.8
HDT (0.46 MPa) *	ISO 75-1,2	°C	113
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.

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## Processing

**TATREN HM 50 46** can be processed on standard injection moulding machines.

Recommended processing temperatures are 190 – 250 °C.

## Storage and Handling

Pellets are packed in 25 kg PE-LD bags and transported on shrink-wrapped pallets at eligible load of polymer 1250 or 1375 kg. Heat treated pallets are available as well. Transportation in a road silo or rail silo is also available. For more detailed information please contact Slovnaft Petrochemicals and TVK 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. 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, catalysts and most additives have been pre-registered. SPC/TVK is committed to fully respect this new legislation and will only use REACH compliant raw materials. At this point in time SPC/TVK polypropylene TATREN/TIPPLEN, do 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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