

# TECHNICAL DATA SHEET

POLYPROPYLENE TATREN HM 50 46

Homopolymer for injection moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

## DESCRIPTION

TATREN HM 50 46 is a 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.

## PRODUCT COMPLIANCE

See DDS.

## PROPERTIES

Parameter	Note	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (230 °C /2.16 kg)	-	ISO 1133-1	g/10 min	50
Tensile Strain at Yield	(1)	ISO 527-1,2	%	8
Tensile Stress at Yield	(1)	ISO 527-1,2	MPa	36.5
Modulus of Elasticity in Tension	(1)	ISO 527-1,2	MPa	1900
Flexural Modulus	(1)	ISO 178	MPa	1850
Izod Impact Strength (notched, 23 °C)	(1)	ISO 180/A	kJ/m <sup>2</sup>	3
HDT (0.45 MPa, flatwise)	(1)	ISO 75-1,2	°C	100
Rockwell Hardness	(1)	ISO 2039-2	R scale	106

Typical properties, not to be used as specification.

(1) Typical properties measured on standard injection moulded test specimen according to ISO 294-1.

## PROCESSING

TATREN HM 50 46 can be processed on standard injection moulding machines. Recommended processing temperatures are 190-250 °C.

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## STORAGE AND HANDLING

Pellets are packed in 25 kg polyethylene bags and transported on shrink-wrapped or stretch-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are provided by PRS, a member of the Faber Halbertma Group, operating a pooling system which collects the pallets after use, and organizes reuse as part of a sustainable, circular system. PRS pallets remain property of PRS at all times. Transportation in road silo or rail silo is also available. For more detailed information please contact a sales representative at SLOVNAFT or at MOL Petrochemicals.

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%.

## RECYCLING

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

## SAFETY

See MSDS.

## DISCLAIMER

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