

TWO COLOURS



ONE DIRECTION

Polypropylene

TATREN HM 50 46

PRELIMINARY VERSION

Homopolymer for injection moulding

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 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 articles, containers, lids and boxes for food packaging etc.

TATREN HM 50 46 is suitable for food contact. The product complies to 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	35
Tensile elongation at yield *	ISO 527-1,2	%	9
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1900
Flexural modulus *	ISO 178	MPa	1700
Izod impact strength (notched, 23 °C) *	ISO 180/1A	kJ/m ²	2,5
Rockwell hardness *	ISO 2039/2	R scale	104

* 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. Transportation in a road silo or rail silo is also available.

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.

Polymer should be handled and stored away from contact with direct flames and other ignition sources.

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.

Notes

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 informatory 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.

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