

TWO COLOURS



ONE DIRECTION

# TATREN HM 50 46

**POLYPROPYLENE TATREN HM 50 46** is a new homopolymer for high speed injection moulding of thin wall packaging and products with long flow length-thickness ratio or sophisticated geometry.

## **BENEFITS:**

- ▶ TATREN HM 50 46 meets the end user demands of light weight goods manufactured by high speed injection moulding
- ▶ TATREN HM 50 46 can be processed on conventional injection moulding equipments at typical or reduced temperatures and injection pressure
- ▶ Super flow ability enables easy filling of moulds with long flow length
- ▶ Thin wall products show excellent stiffness and good impact resistance
- ▶ This grade is characterized by the low warpage and improved shrinkage isotropy

## **KEY FEATURES:**

- ▶ High stiffness, good impact properties
- ▶ Superior flow ability
- ▶ Cycle time shortage potential
- ▶ Good antistatic properties to provide low shelf dusting and good mould release
- ▶ Very good dimensional stability



## **TARGET APPLICATIONS:**

- ▶ Thin wall containers
- ▶ Household articles
- ▶ Pails
- ▶ Caps and closures
- ▶ Boxes for food packaging
- ▶ Lids and trays
- ▶ Garden furniture

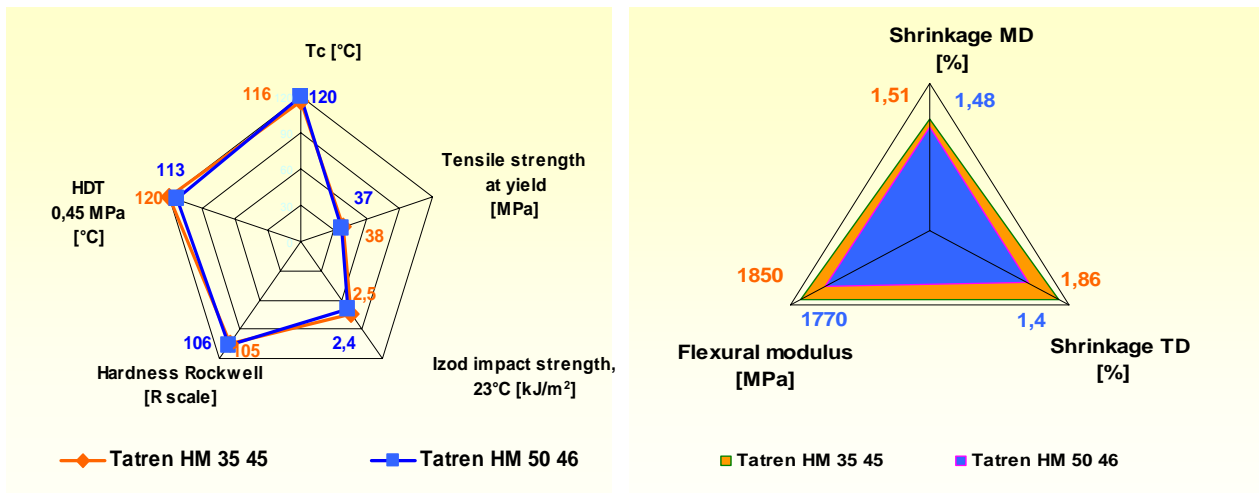
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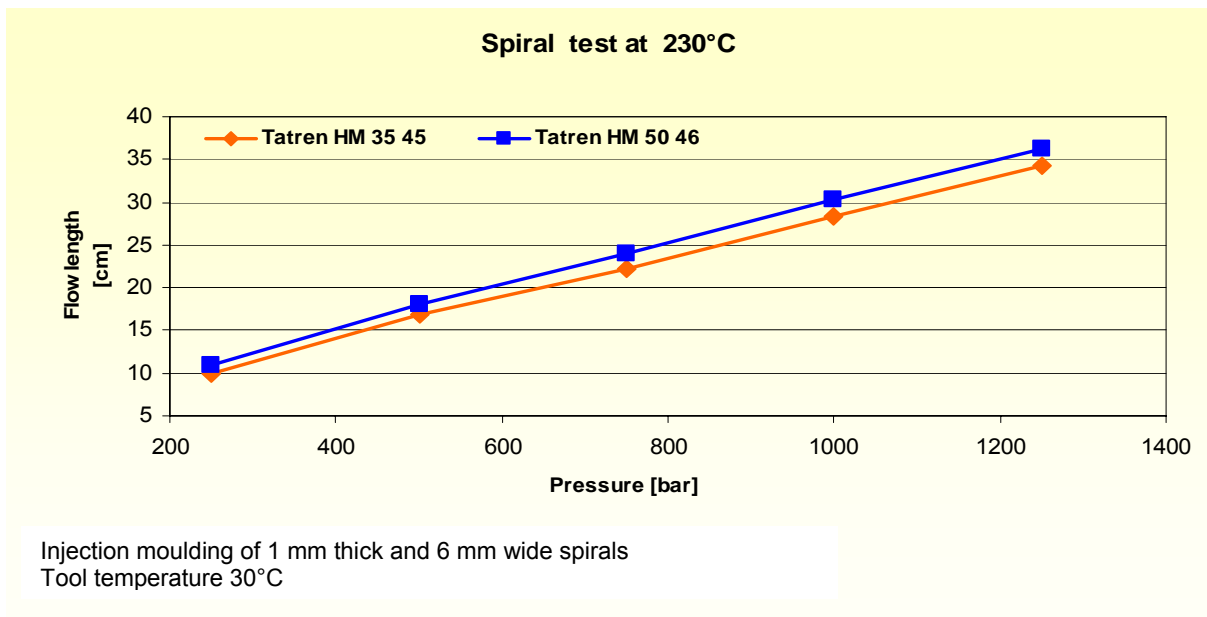


## COMPARISON OF NEW TATREN HM 50 46 TO TATREN HM 35 45:



### BENEFITS OF TATREN HM 50 46 OVER TATREN HM 35 45:

- ▶ Tatren HM 50 46 does not lose mechanical and impact properties in spite of higher melt flow rate
- ▶ Nucleation system of Tatren HM 50 46 offers faster solidification and so reduction in cycle time
- ▶ Uniformity of shrinkage in flow and transverse direction of Tatren HM 50 46 is higher and this results to better dimensional stability of final products
- ▶ Tatren HM 50 46 enables longer flow length



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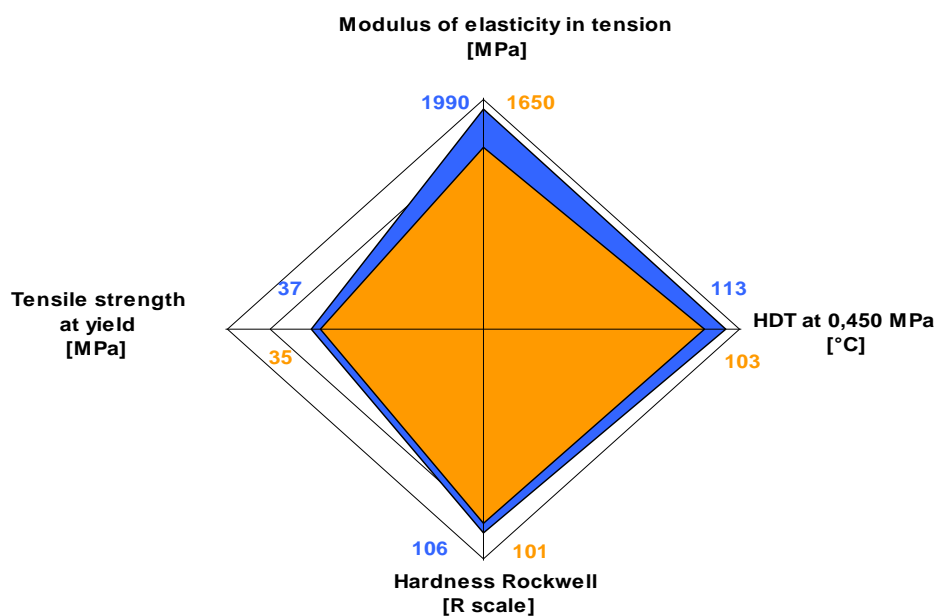
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## COMPARISON OF TATREN HM 50 46 TO COMPETITIVE HOMOPOLYMER:



■ Tatren HM 50 46 ■ Competitor grade with MFR = 50 g/ 10 min

- ▶ TATREN HM 50 46 shows better stiffness in compare to high flow competitive homopolymer
- ▶ This benefit enables to produce final products of lower wall thickness while the stiffness is stable

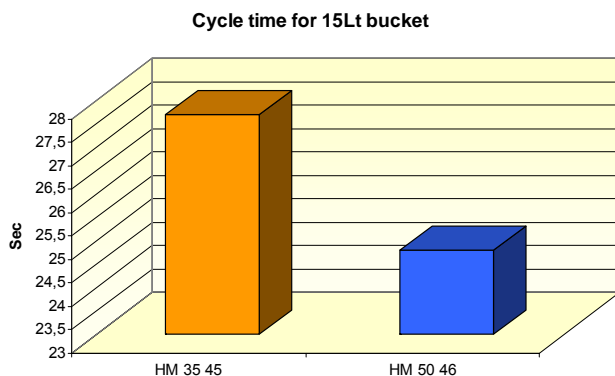


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**INDUSTRIAL TEST OF TATREN HM 50 46 IN COMPARE TO TATREN HM 35 45:**

Excellent processability of TATREN HM 50 46 gives a cycle time reduction of -10% in comparison to TATREN HM 35 45.

In case of 15 Lt bucket the cycle time was reduced from 27,7 s (130 pcs/hr) to 24,8 s (145 pcs/hr).

**MANUFACTURER:**

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**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 informative 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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