

# TECHNICAL DATASHEET

## POLYPROPYLENE TATREN HT 18 10

Homopolymer for fibres

### DESCRIPTION

TATREN HT 18 10 is a controlled rheology homopolymer with medium molecular weight distribution. High tenacity and good thermal stability are typical for this grade, which makes it suitable for fibre applications. This grade contains anti gas fading additive package.

### APPLICATIONS

TATREN HT 18 10 is intended to be used mainly for production of bulk continuous filaments (BCF) for carpet production and for staple fibres. This product is also suitable for injection moulding of general purpose items, extrusion coating of PP fabrics and for compounding.

### PRODUCT COMPLIANCE

See DDS.

### PROPERTIES\*

| Parameter                                  | Note | Test method | Unit              | Typical value |
|--|------|-------------|-------------------|---------------|
| MFR - Melt Mass-Flow Rate (230°C, 2.16 kg) | -    | ISO 1133-1  | g/10 min          | 18            |
| Tensile Stress at Yield                    | 2    | ISO 527-1,2 | MPa               | 35            |
| Tensile Strain at Yield                    | 2    | ISO 527-1,2 | %                 | 9             |
| Modulus of Elasticity in Tension           | 2    | ISO 527-1,2 | MPa               | 1700          |
| Flexural Modulus                           | 2    | ISO 178     | MPa               | 1650          |
| Izod Impact Strength (notched, 23°C)       | 2    | ISO 180/A   | kJ/m <sup>2</sup> | 4             |
| Hardness - Rockwell                        | 2    | ISO 2039-2  | R scale           | 104           |
| HDT (0.45 MPa, flatwise)                   | 2    | ISO 75-1,2  | °C                | 88            |
| Recommended Processing Temperature         | -    | -           | °C                | 200 - 240     |

\*Typical properties, not to be used as specification.

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

### PROCESSING

TATREN HT 18 10 can be processed on standard extrusion and injection moulding machines.

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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.

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## POLYPROPYLENE TATREN HT 18 10

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### MANUFACTURER

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