

# TECHNICAL DATA SHEET

## POLYPROPYLENE TATREN IM 100 85

### Impact copolymer for injection moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

#### DESCRIPTION

**TATREN IM 100 85** is a reactor impact copolymer of exceptionally high fluidity and excellent processability. This grade contains nucleating and antistatic agent.

**TATREN IM 100 85** is characterised by excellent stiffness and good impact resistance. This grade has excellent organoleptic properties which makes it suitable to be used for food contact applications.

#### APPLICATIONS

**TATREN IM 100 85** is intended especially for very high speed thin wall injection moulding of products where high stiffness and good impact resistance is required. Typical end products are household and garden articles like bowls, pails, storage boxes, trays, caps, closures, boxes for food packaging etc. This grade can be used in mixtures with TATREN homopolymer grades.

**TATREN IM 100 85** 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 1133-1	g/10 min	100
Tensile stress at yield *	ISO 527-1,2	MPa	23
Tensile strain at yield *	ISO 527-1,2	%	4
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1450
Flexural modulus *	ISO 178	MPa	1400
Izod impact strength (notched, 23 °C) *	ISO 180/A	kJ/m <sup>2</sup>	4.5
Izod impact strength (notched, -20 °C) *	ISO 180/A	kJ/m <sup>2</sup>	3
HDT (0.45 MPa, flatwise) *	ISO 75-1,2	°C	92
Rockwell hardness *	ISO 2039-2	R scale	82

Typical properties, not to be used as specification.

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

#### PROCESSING

**TATREN IM 100 85** 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 PE-LD bags and transported on stretch or shrink-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are available as well. We use adhesive between the bags in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred method is to lift the bag at first without rotation. Transportation in a road silo or rail silo is also available. For more detailed information please contact SLOVNAFT and MOL Petrochemicals 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 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%.

### 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

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