

# TECHNICAL DATA SHEET

## POLYPROPYLENE TATREN IM 75 81

### 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 75 81** is a reactor impact copolymer of good processing stability and excellent flowability. This grade contains very effective and modern nucleating agent which in combination with antistatic agent provides short cycles, good dimensional stability of final articles and good mould release in the injection moulding process.

**TATREN IM 75 81** is characterised by excellent organoleptic properties (low taste and odour), high stiffness/impact balance and good flow.

#### APPLICATIONS

**TATREN IM 75 81** is intended especially for high speed thin wall injection moulding of products where good impact resistance is required and for products of complicated shapes. Typical end products are different household and garden articles like bowls, pails, storage boxes, trays, caps, closures, boxes for food packaging, toys etc. This grade can be used in mixtures with TATREN homopolymer grades.

**TATREN IM 75 81** is well suited for LFT technology to produce sound insulation car parts by compression moulding. This grade can be used for compounding as well.

**TATREN IM 75 81** 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	75
Tensile stress at yield *	ISO 527-1,2	MPa	23
Tensile strain at yield *	ISO 527-1,2	%	3.5
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1400
Flexural modulus *	ISO 178	MPa	1400
Izod impact strength (notched, 23 °C) *	ISO 180/A	kJ/m <sup>2</sup>	6
Izod impact strength (notched, -20 °C) *	ISO 180/A	kJ/m <sup>2</sup>	4
HDT (0.45 MPa, flatwise) *	ISO 75-1,2	°C	93
Rockwell hardness *	ISO 2039-2	R scale	81

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 75 81** 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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