

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 | % | 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 ² | 6 |
| Izod impact strength (notched, -20 °C) * | ISO 180/A | kJ/m ² | 3.5 |
| HDT (0.45 MPa) * | ISO 75-1,2 | °C | 88 |
| Rockwell hardness * | ISO 2039/2 | R scale | 85 |

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.

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

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 informational 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. The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

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