TECHNICAL DATASHEET

POLYPROPYLENE TATREN IM 75 81

Impact copolymer for injection moulding

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, high stiffness, good impact resistance 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.

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	75
Tensile Stress at Yield	2	ISO 527-1,2	MPa	23
Tensile Strain at Yield	2	ISO 527-1,2	%	4
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	1400
Flexural Modulus	2	ISO 178	MPa	1400
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m²	6
Izod Impact Strength (notched, -20°C)	2	ISO 180/A	kJ/m²	4
Hardness - Rockwell	2	ISO 2039-2	R scale	83
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	92
Recommended Processing Temperature	-	-	°C	190 - 250

*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 IM 75 81 can be processed on standard 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.

Flammability measurement according to FMVSS302 (1998): burning rate 44.6 mm/min, horizontal position, measured on press moulded specimens, size (356 x 74 x 1.9-2.3) mm.

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DISCLAIMER