

TECHNICAL DATASHEET

POLYPROPYLENE TATREN IM 100 85

Impact copolymer for injection moulding

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 high 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.

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	100
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	1350
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m ²	4.5
Izod Impact Strength (notched, -20°C)	2	ISO 180/A	kJ/m ²	3
Hardness - Rockwell	2	ISO 2039-2	R scale	80
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 100 85 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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