

TECHNICAL DATA SHEET

POLYPROPYLENE TATREN IM 45 54

High Crystallinity 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 45 54 is a high crystallinity impact copolymer of good processing stability and medium fluidity. This grade shows excellent organoleptic properties of the typical MOL in-reactor made grades. This grade is additivated by nucleating and antistatic agent. The improved polymer structure combined with the built-in additivatation package gives potential for shorter cycle time and wall thickness reduction.

TATREN IM 45 54 is characterised by very high stiffness with well balanced impact resistance.

APPLICATIONS

TATREN IM 45 54 is intended especially for thin wall injection moulding (TWIM) of products where high wall stiffness combined with good impact resistance is required – rigid food and non-food packages, hot-filled application, household articles, consumer goods etc.

Another typical end products are buckets for paints and coatings, storage and transport containers, crates, garden furniture, flower pots, toys and different technical items. This grade is particularly suitable also for automotive applications.

PROPERTIES

	Test method	Unit	Measured value
MFR (230 °C/2.16 kg)	ISO 1133-1	g/10 min	45.0
Tensile stress at yield *	ISO 527-1,2	MPa	29.5
Tensile strain at yield *	ISO 527-1,2	%	4.5
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1800
Flexural modulus *	ISO 178	MPa	1750
Izod impact strength (notched, 23 °C) *	ISO 180/A	kJ/m ²	5.5
Izod impact strength (notched, -20 °C) *	ISO 180/A	kJ/m ²	3.3
HDT (0.45 MPa, flatwise) *	ISO 75-1,2	°C	104
Hardness Rockwell *	ISO 2039-2	R scale	97

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 45 54 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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