

TECHNICAL DATASHEET

POLYPROPYLENE TATREN IM 45 54

High Crystallinity Impact Copolymer for injection moulding

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. The improved polymer structure combined with the built-in additivation package gives potential for shorter cycle time and wall thickness reduction. This grade is additivated by nucleating and antistatic agent.

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.

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	45
Tensile Stress at Yield	2	ISO 527-1,2	MPa	29.5
Tensile Strain at Yield	2	ISO 527-1,2	%	4.5
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	1800
Flexural Modulus	2	ISO 178	MPa	1750
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m ²	5.5
Izod Impact Strength (notched, -20°C)	2	ISO 180/A	kJ/m ²	3.3
Hardness - Rockwell	2	ISO 2039-2	R scale	97
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	104
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 45 54 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 50.5 mm/min, horizontal position, measured on press moulded specimens, size (356 x 73 x 2.0-2.4) mm.

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