

TECHNICAL DATASHEET

POLYPROPYLENE TATREN TPO 12 76

High impact resistance in-reactor made thermoplastic polyolefin

DESCRIPTION

TATREN TPO 12 76 is a controlled rheology extra high impact resistance thermoplastic polyolefin with exceptional impact properties even at low temperatures. It is a grade of medium fluidity. This grade contains nucleating agent. TATREN TPO 12 76 is characterised by exceptionally high impact resistance even at minus temperatures and very good impact/stiffness balance.

APPLICATIONS

TATREN TPO 12 76 is intended especially for compounding and subsequent injection moulding of products where excellent impact resistance at minus temperatures is required. This grade is intended to be used in automotive industry. In regard of extra high impact properties of the grade it is very often not necessary to add any rubber modifier for the purpose to increase impact behaviour for heavy applications. When used in blends it also allows usage of higher portion of regranulates while there is not deterioration of impact properties, which makes this grade to be economically very attractive raw material.

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	12
Tensile Stress at Yield	2	ISO 527-1,2	MPa	16.5
Tensile Strain at Yield	2	ISO 527-1,2	%	13
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	900
Flexural Modulus	2	ISO 178	MPa	850
Izod Impact Strength (notched, 23°C)	12	ISO 180/A	kJ/m ²	44
Izod Impact Strength (notched, -20°C)	12	ISO 180/A	kJ/m ²	35
Izod Impact Strength (notched, -30°C)	12	ISO 180/A	kJ/m ²	> 10
Hardness - Shore D	2	ISO 868	-	50
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	67
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.

(12) Values have been measured on standard injected moulded specimens prepared in accordance with internal method.

PROCESSING

TATREN TPO 12 76 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 43.8 mm/min, horizontal position, measured on press moulded specimens, size (356 x 74 x 2.0-2.3) mm.

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