

TWO COLOURS



ONE DIRECTION

Polypropylene

TATREN TPO 20 77

High impact resistance in-reactor made thermoplastic polyolefine for injection moulding

Description

TATREN TPO 20 77 is controlled rheology extra high impact resistance thermoplastic polyolefine with exceptional impact properties even at low temperatures. It is grade of medium fluidity and contains nucleating agent.

TATREN TPO 20 77 is characterised by exceptional high impact resistance even at minus temperatures and very good impact/stiffness balance.

Applications

TATREN TPO 20 77 is intended especially for 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 which makes this grade economically very attractive raw material.

TATREN TPO 20 77 is suitable for food contact. The product complies to Food Contact Regulations.

Properties

	Test method	Unit	Typical value
MFR (230 °C/2,16 kg)	ISO 1133	g/10 min	20
Tensile strength at yield *	ISO 527-1,2	MPa	20
Tensile elongation at yield *	ISO 527-1,2	%	12
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1150
Flexural modulus *	ISO 178	MPa	950
Izod impact strength (notched, 23 °C) *	ISO 180/1A	kJ/m ²	45
Izod impact strength (notched, -20 °C) *	ISO 180/1A	kJ/m ²	30
Izod impact strength (notched, -30 °C) *	ISO 180/1A	kJ/m ²	>10
HDT (0.46 MPa) *	ISO 75-1,2	°C	96
Rockwell hardness *	ISO 2039/2	R scale	49

* Typical properties, not to be used as specification. Average mechanical property values of several measurements carried out on standard injection-moulded test specimens prepared in accordance with ISO 1873-2.

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Processing

TATREN TPO 20 77 can be processed on standard injection moulding machines.

Recommended processing temperatures are 190 – 250 °C.

Storage and Handling

Pellets are packed in 25 kg PE-LD bags and transported on shrink-wrapped pallets at eligible load of polymer 1250 or 1375 kg.

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. Producer does not take responsibility for any damages caused by adverse storage.

Polymer should be handled and stored away from contact with direct flames and other ignition sources.

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.

Notes

The information provided in this publication has been compiled to the best of our present knowledge. However, in view of the various applications of polypropylene resins and the equipment used, the processing conditions may differ.

The recommendations and data herein are to be construed as informative only and do not relieve users from carrying out their own tests and experiments prior to processing in order to check suitability for a specific use. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Our products are under continuous development, therefore we reserve the right to change the information presented in this brochure at our own discretion.

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