

TWO COLOURS



ONE DIRECTION

Polypropylene

TATREN TPO 20 77

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

Description

TATREN TPO 20 77 is controlled rheology extra high impact resistance thermoplastic polyolefin 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 with 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	81
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.

TIPELIN TIPOLEN TIPPLEN TATREN BRALEN

The joint product portfolio of TVK and Slovnaft Petrochemicals provide infinite opportunities

MEMBERS OF THE MOL GROUP



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. Heat treated pallets are available as well. Transportation in a road silo or rail silo is also available. For more detailed information please contact Sloznaft Petrochemicals and TVK 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. 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, catalysts and most additives have been pre-registered. SPC/TVK is committed to fully respect this new legislation and will only use REACH compliant raw materials. At this point in time SPC/TVK polypropylene TATREN/TIPPLEN, do 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

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 informational 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.

The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

TIPELIN TIPOLEN TIPPLEN TATREN BRALEN

The joint product portfolio of TVK and Sloznaft Petrochemicals provide infinite opportunities

MEMBERS OF THE MOL GROUP



MANUFACTURER

Slovnaft Petrochemicals, s.r.o.
Vlčie hrdlo 4846
824 12 Bratislava
Slovak Republic

Internet: <http://www.slovnaft.sk>

E-mail: info@slovnaft.sk

CUSTOMER SERVICE

Slovnaft Petrochemicals, s.r.o.
Polymer Marketing and Sales

Telephone: + 421 2 4055 6836, + 421 2 4055 6941

Fax: + 421 2 5859 9825

E-mail: jana.moncekova@petchem.sk
zuzana.kramarova@petchem.sk

SALES ORGANIZATION

Slovnaft Petrochemicals, s.r.o.
Polymer Marketing and Sales
Vlčie hrdlo 4846
824 12 Bratislava
Slovak Republic

Telephone: + 421 2 5859 7515, + 421 2 5859 7682

Fax: +421 2 5859 7224

TIPELIN TIPOLEN TIPPLEN TATREN BRALEN

The joint product portfolio of TVK and Slovnaft Petrochemicals provide infinite opportunities

MEMBERS OF THE MOL GROUP



Slovnaft
PETROCHEMICALS



TVK

TVK Inter-Chemol GmbH.

Felnerstrasse 5.
D-60322 Frankfurt am Main
Germany

Telephone: +49 69 154 04 12
Fax: +49 69 154 04 41
E-mail: gaboragoston@tvkic.de

TVK Italia S.r.L.

Via P. Teulíe 1.
I-20136 Milano
Italy

Telephone: +39 02 58 30 55 23
Fax: +39 02 58 30 34 92
E-mail: tvkitaly@energy.it

TVK-France

182 Avenue Charles De Gaulle
F-92200 Neuilly sur Seine
France

Telephone: +33 14 745 63 60
Fax: +33 14 745 45 10
E-mail: kacsandi@free.fr
tvk.france@orange.fr

TVK Ukraine

04128 Kiev
ul. Tupoleva 19, office 303
Telephone: +380 44 374 00 80
Fax: +380 44 374 00 90
E-mail: office@tvkukraine.eu

TVK Polska Sp. z o.o.

ul. Wawozowa 23/12
PL 02-796 Warszawa
Poland

Telephone: +48 22 545 70 70
Fax: +48 22 545 70 60
E-mail: tvkpolska@tvkpolska.pl
www.tvkpolska.pl

MOL- Austria Handels GmbH.

Gartenbaupromenade 2/6
A-1010 Wien
Austria

Telephone: +43 1 515 991 120
+43 1 515 991 121
Fax: +43 1 513 37 55 1120
+43 1 513 37 55 1121
E-mail: JHauk@MOL.hu

SC. MOL Romania P.P. SRL

Str. Danielopolu 4-6
ET2 Sector 1 Cod 014 134
Bucuresti, Romania

Telephone: +40 21 204 85 00
+40 21 204 85 02
Fax: +40 21 232 1059
E-mail: ematei@molromania.ro
petchem@molromania.ro

Other European Countries

H-3581 Tiszaújváros
P.O.B. 20.
Telephone: +36 49 52 21 18
Fax: +36 49 52 24 10
E-mail: plokai@tvk.hu

June 2009

TIPELIN TIPOLEN TIPPLEN TATREN BRALEN

The joint product portfolio of TVK and Slovnaft Petrochemicals provide infinite opportunities

MEMBERS OF THE MOL GROUP



Slovnaft
PETROCHEMICALS

