

TECHNICAL DATASHEET

POLYPROPYLENE TATREN TPO 20 77

High impact resistance in-reactor made thermoplastic polyolefin

DESCRIPTION

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

APPLICATIONS

TATREN TPO 20 77 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 regranalates 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	20
Tensile Stress at Yield	2	ISO 527-1,2	MPa	16.5
Tensile Strain at Yield	2	ISO 527-1,2	%	12.5
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	43
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	70
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 20 77 can be processed on standard injection moulding machines.

TECHNICAL DATASHEET

POLYPROPYLENE TATREN TPO 20 77

High impact resistance in-reactor made thermoplastic polyolefin

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 39.5 mm/min, horizontal position, measured on press moulded specimens, size (356 x 73 x 2.1-2.4) mm.

TECHNICAL DATASHEET

POLYPROPYLENE TATREN TPO 20 77

High impact resistance in-reactor made thermoplastic polyolefin

MANUFACTURER

SLOVNAFT, a.s.
Vlčie hrdlo 1
824 12 Bratislava
Slovak Republic
E-mail: infopolymer@slovnaft.sk

TECHNICAL SUPPORT

POLYMER APPLICATIONS ENGINEERING
SLOVNAFT, a.s.
Vlčie hrdlo 1
824 12 Bratislava
Slovak Republic
Telephone:
+ 421 2 5859 7250
E-mail: polymerservice@slovnaft.sk

SALES OFFICES

HUNGARY

H-3581 Tiszaújváros,
P.O. Box: 20, Hungary
Mobile: + 36 30 447 4441
Fax: +36 1 8877 647
E-mail: polymersales@mol.hu

SLOVAKIA AND CZECH REPUBLIC

Vlčie hrdlo 1
824 12 Bratislava, Slovak Republic
Telephone:
+421 2 5859 5426
+421 2 5859 5431
+421 2 5859 5429
+421 2 5859 5428
E-mail: predajpolymerov@slovnaft.sk

DISCLAIMER

©2022 MOL Group. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a web site. MOL Group does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "MOL", or "MOL Group" are used for convenience, and may include any one or more of MOL Group, or any affiliates they directly or indirectly control. MOL Group, the MOL Group logo, and all other product names used herein are trademarks of MOL Plc. or SLOVNAFT, a.s. unless indicated otherwise.

GERMANY

Im Trutz Frankfurt 49,
D-60322 Frankfurt am Main,
Germany
Telephone: +49 69 154 04 0
Fax: +49 69 154 04 41
E-mail:
polymersales@molgermany.de

ITALY

Via Montefeltro, 4
20156 Milano, Italy
Telephone: +39 02 58 30 5523
Fax: +39 02 58 30 3492
E-mail: molitalia@molgroupitaly.it

AUSTRIA

Walcherstrasse 11A, 7.Stock
A-1020 Wien, Austria
Mobile: +43 664 96 33 578
E-mail:
KatalinHorvath@molaustria.at

FRANCE

Paris, France
Mobile : +33 7 89 86 10 64
E-mail: iren.husson@molgroupitaly.it

POLAND

Ul.Postępu 17D
02-676 Warszawa, Poland
Telephone: +48 22 545 70 70
Fax: +48 22 545 70 60
E-mail: petchem@slovnaft.pl

ROMANIA

Str.Daniel Danielopolu 4-6
ET1 Sector 1 Cod 014 134
Bucuresti, Romania
Telephone:
+40 21 204 85 00
+40 21 204 85 02
Fax: +40 21 232 10 59
E-mail: petchem@molromania.ro

UKRAINE

04053 Kiev
Sichovykh Striltsiv str. 50, 5th floor, office
5-B, Ukraine
Tel.: +380 44 374 00 80 | +380 67 463
58 69
Fax: +380 44 374 00 90
E-mail: Jzavojko@mol-ukraine.com.ua

CROATIA, SLOVENIA, SERBIA, MONTENEGRO, BOSNIA AND HERZEGOVINA, NORTH MACEDONIA, ALBANIA, KOSOVO

Zadarska 80
HR-10000 Zagreb, Croatia
Telephone: +385 1 6160 637
Fax: +385 1 6160 601
E-mail: polymersales@tifon.hr

OTHER EUROPEAN COUNTRIES

Telephone:
+36 20 456 1889
+36 70 373 9209
E-mail: polymersales@mol.hu