

# TECHNICAL DATA SHEET

## POLYPROPYLENE TATREN IM 15 79

### Impact copolymer for injection moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

#### DESCRIPTION

**TATREN IM 15 79** is a controlled rheology impact copolymer of good fluidity, excellent impact resistance at room temperature, very good impact resistance at minus temperatures and improved stiffness. This grade contains nucleating and antistatic agent.

#### APPLICATIONS

**TATREN IM 15 79** is intended especially for injection moulding of heavy-duty products where very high impact resistance at room temperature combined with good stiffness is required. Typical end products are storage and transport containers, medical containers, crates and rigid boxes, luggage, pails, car parts and other technical and heavy-duty applications.

**TATREN IM 15 79** is suitable to be used as matrix for compounds intended for automotive industry as well as for other industrial sectors.

#### PROPERTIES

	Test method	Unit	Typical value
MFR (230 °C/2.16 kg)	ISO 1133-1	g/10 min	15
Tensile stress at yield *	ISO 527-1,2	MPa	20
Tensile strain at yield *	ISO 527-1,2	%	8
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1100
Flexural modulus *	ISO 178	MPa	1050
Izod impact strength (notched, 23 °C) **	ISO 180/A	kJ/m <sup>2</sup>	43
Izod impact strength (notched, -20 °C) **	ISO 180/A	kJ/m <sup>2</sup>	6.5
HDT (0.45 MPa, flatwise) *	ISO 75-1,2	°C	75
Shore D hardness *	ISO 868	-	55

Typical properties, not to be used as specification.

\* Typical properties measured on standard injection moulded test specimen according to ISO 294-1.

\*\* Values have been measured on standard injected moulded specimens prepared in accordance with internal method.

#### PROCESSING

**TATREN IM 15 79** can be processed on standard injection moulding machines. Recommended processing temperatures are 190 - 250 °C.

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### STORAGE AND HANDLING

Pellets are packed in 25 kg PE-LD bags and transported on stretch or shrink-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are available as well. We use adhesive between the bags in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred method is to lift the bag at first without rotation. Transportation in a road silo or rail silo is also available. For more detailed information please contact SLOVNAFT and MOL Petrochemicals 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 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%.

### 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

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#### MANUFACTURER

**SLOVNAFT, a.s.**

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

#### TECHNICAL SERVICE

**SLOVNAFT, a.s.**

Vlčie hrdlo 1  
824 12 Bratislava  
Slovak Republic  
Telephone:  
+ 421 2 5859 7250  
+ 421 2 5859 7257  
E-mail: polymerservice@slovnaft.sk

#### SALES ORGANIZATION

##### 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: tvk.info@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

##### AUSTRIA

Walcherstrasse 11A, 7.Stock  
A- 1020 Wien, Austria  
Telephone: +43 1 211 20 1120  
Fax: +43 1 211 20 1198  
E-mail: JHauk@molaustria.at

##### FRANCE

Paris, France  
Mobile Phone: + 33 7 89 86 10 64  
Telephone: + 33 1 64 32 44 17  
E-mail: iren.husson@molgroupitaly.it

##### ROMANIA

Str. 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

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#### HUNGARY

H-3581 Tiszaújváros,  
P.O. Box: 20  
Hungary  
Telephone: +36 49 531 928  
Fax: +36 1 8877 647  
E-mail: polymersales@mol.hu

#### UKRAINE

04073 Kiev  
Stepana Bandery ave., 23, 7th floor, of. 305,  
Ukraine  
Telephone:  
+380 44 374 00 80  
+380 67 463 58 69  
Fax: +380 44 374 00 90  
E-mail: JZavojko@mol-ukraine.com.ua

#### OTHER EUROPEAN COUNTRIES

Telephone:  
+36 20 506 6572  
+36 70 373 9209  
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 7515  
+ 421 2 5859 7622  
+ 421 2 5859 7741  
+ 421 2 5859 7231  
E-mail: polymersales@slovnaft.sk

#### CROATIA, SLOVENIA, SERBIA, MONTENEGRO, BOSNIA AND HERZEGOVINA, FYR MACEDONIA, ALBANIA, KOSOVO

Zadarska 80  
HR-10000 Zagreb, Croatia  
Telephone: +385 1 6160 600  
Fax: +385 1 6160 601  
E-mail: polymersales@tifon.hr

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