TWO COLOURS



Polypropylene TIPPLEN R 659

Random copolymer for extrusion

## **Description**

**TIPPLEN R 659** is a random copolymer polypropylene for extrusion. This grade is formulated with a new generation nucleating agent, so the product shows excellent optical properties (transparency and gloss).

## **Applications**

**TIPPLEN R 659** is recommended for blow moulded bottles for detergents, toiletries and flat mineral water, where the higher gas-permeability than PVC and PET is no problem. This grade is well suited for extruded sheet for stationery folder and thermoforming articles.

**TIPPLEN R 659** 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	2
Flexural Modulus *	ISO 178	MPa	1150
Modulus of Elasticity in Tension *	ISO 527-1,2	MPa	1050
Tensile Strength at Yield *	ISO 527-1,2	MPa	29
Tensile Strain at Yield *	ISO 527-1,2	%	12
Izod Impact Strength (notched, 23 ℃) *	ISO 180/A	kJ/m²	24
HDT (0.45 MPa) *	ISO 75-1,2	℃	78
Rockwell Hardness *	ISO 2039/2	R scale	78

Typical properties, not to be used as specification.

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<sup>\*</sup> Average mechanical property values of several measurements carried out on standard injection-moulded test specimens prepared in accordance with ISO 1873-2



### **Processing**

**TIPPLEN R 659** can be used in conventional extrusion machines. Recommended processing temperature 185 − 230 °C.

## Storage and Handling

Pellets are packed in 25 kg PE-LD bags and transported on shrink-wrapped pallets at eligible load of polymer 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 Slovnaft 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 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 Petrochemicals, s.r.o./TVK Plc. is committed to fully respect this new legislation and will only use REACH compliant raw materials. At this point in time PP TATREN/TIPPLEN 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 methods of shredding and cleaning.

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 equipments used, the processing conditions may differ.

The recommendations and data herein are to be construed as informatory 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.

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## **MANUFACTURER**

TVK Plc.

H-3581 Tiszaújváros,

P.O. Box: 20 Hungary

Internet: <a href="www.tvk.hu">www.tvk.hu</a>
E-mail: <a href="tvkinfo@tvk.hu">tvkinfo@tvk.hu</a>

## **TECHNICAL SERVICE**

TVK Plc.

Polymer Marketing and Sales Technical Service H-3581 Tiszaújváros, P.O. Box: 20

Hungary

Fax: + 36 49 521-186

E-mail: <u>customerservice@tvk.hu</u>

**Technical service for PE** 

Telephone: + 36 49 521-367, + 36-80 204-249,

**Technical service for PP** 

Telephone: + 36 49 522-013, + 36-80 204-248

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#### TVK Plc.

H-3581 Tiszaújváros,

P.O. Box: 20 Hungary

Telephone: +36 49 521-355 Fax: +36 49 522-410 E-mail: polymersales@tvk.hu

## Slovnaft Petrochemicals, s.r.o.

Vlčie hrdlo 4846 824 12 Bratislava Slovak Republic

Telephone: + 421 2 5859 6549

+ 421 2 5859 7231 + 421 2 5859 7469

+ 421 2 5859 7741 Fax: + 421 2 5859 7381

E-mail:

polymersales@snpch.petchem.sk

### TVK Inter-Chemol GmbH.

Fellnerstrasse 7-9.

D-60322 Frankfurt am Main

Germany

Telephone: +49 69 154 04 0

+49 69 154 04 31

Fax: +49 69 154 04 41

E-mail: tvkich@de.tvk.eu

### TVK Italia S.r.I.

Via Teulié, 1 20136 Milano

Italy

Telephone: +39 02 58 30 5523 Fax: +39 02 58 30 3492

E-mail: tvkitaly@it.tvk.eu

### **TVK France**

182 avenue Charles de Gaulle F-92200 Neuilly-sur-Seine

France

Telephone: +33 (0)1 47 45 63 60 Fax: +33 (0)1 47 45 45 10

E-mail: tvkfrance@fr.tvk.eu

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### **TVK Ukraine**

04128 Kiev

ul. Tupoleva, 19, office 303

Ukraine

Telephone: +380 44 374 00 80

+380 67 463 58 70

Fax: +380 44 374 00 90 E-mail: dmaxim@tvkukraine.eu

### TVK Polska Sp. z o.o.

ul. Wąwozowa 23/12 PL 02-796 Warszawa

Poland

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

### 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@molaustria.at

## 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: petchem@molromania.ro

### **Other European Countries**

Telephone: +36 49 521 355

+ 421 2 5859 7515 + 421 2 5859 7682

Fax: +36 49 522 410

+421 2 5859 7224

E-mail: polymersales@tvk.hu polymersales@snpch.petchem.sk

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