Polypropylene

**TIPPLEN K 899**
Impact copolymer for extrusion

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**Description**

**TIPPLEN K 899** is a high molecular weight impact copolymer polypropylene for extrusion. **TIPPLEN K 899** offers excellent heat and detergent resistance. The product shows excellent impact strength even at low temperature.

**Applications**

**TIPPLEN K 899** is well suited for blow moulded appliance components, wheels, under-the-hood automotive parts, toolboxes, suitcases and large containers. This grade is also recommended for extrusion of pipes, fittings, tough sheet for industrial applications and thermoforming trays for storage in refrigerator. **TIPPLEN K 899** is suitable for food contact. The product complies with Food Contact Regulations. This polypropylene granulate manufactured by TVK Plc. complies with requirements of Standard EN 12201, suitable for drinking water applications.

**Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test method</th>
<th>Unit</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFR (230 °C/2.16 kg)</td>
<td>ISO 1133</td>
<td>g/10 min</td>
<td>0.35</td>
</tr>
<tr>
<td>Flexural Modulus *</td>
<td>ISO 178</td>
<td>MPa</td>
<td>1400</td>
</tr>
<tr>
<td>Modulus of Elasticity in Tension *</td>
<td>ISO 527-1,2</td>
<td>MPa</td>
<td>1300</td>
</tr>
<tr>
<td>Tensile Strength at Yield *</td>
<td>ISO 527-1,2</td>
<td>MPa</td>
<td>30</td>
</tr>
<tr>
<td>Tensile Strain at Yield *</td>
<td>ISO 527-1,2</td>
<td>%</td>
<td>12</td>
</tr>
<tr>
<td>Izod Impact Strength (notched, 23 °C)</td>
<td>ISO 180/A</td>
<td>kJ/m²</td>
<td>54</td>
</tr>
<tr>
<td>Izod Impact Strength (notched, -20 °C)</td>
<td>ISO 180/A</td>
<td>kJ/m²</td>
<td>8</td>
</tr>
<tr>
<td>HDT (0.45 MPa) *</td>
<td>ISO 75-1,2</td>
<td>°C</td>
<td>90</td>
</tr>
<tr>
<td>Rockwell Hardness *</td>
<td>ISO 2039/2</td>
<td>R scale</td>
<td>74</td>
</tr>
</tbody>
</table>

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.
Processing
**TIPPLEN K 899** can be used in conventional extrusion machines. Recommended processing temperature 195 – 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 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 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.

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

TVK Plc.
H-3581 Tiszaújváros,
P.O. Box: 20
Hungary
Internet: www.tvk.hu
E-mail: tvkinfo@tvk.hu

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: customerservice@tvk.hu

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
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.l.
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

TVK Ukraine
04128 Kiev
ul. Tupoleva, 19, office 303
Ukraine
Telephone: +380 44 374 00 80
+380 44 374 00 90
Fax: +380 67 463 58 70
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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