TECHNICAL DATASHEET

POLYPROPYLENE TIPPLEN K 691

Impact copolymer for extrusion applications

DESCRIPTION

TIPPLEN K 691 is a high molecular weight nucleated impact copolymer polypropylene for extrusion. The product offers excellent impact strength and excellent process ability.

APPLICATIONS

TIPPLEN K 691 is recommended for corrugated cardboards and sheets.

TIPPLEN K 691 is not intended for use in medical & pharmaceutical applications.

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	1.3
Tensile Stress at Yield	2	ISO 527-1,2	MPa	27
Tensile Strain at Yield	2	ISO 527-1,2	%	6
Flexural Modulus	2	ISO 178	MPa	1500
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m²	43
Izod Impact Strength (notched, -20°C)	2	ISO 180/A	kJ/m²	8
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	104
Recommended Processing Temperature	-	-	°C	195 - 245

*Typical properties, not to be used as specification.

(2) Typical properties measured on standard injection moulded test specimen according to ISO 294-1.

PROCESSING

TIPPLEN K 691 can be used in conventional extrusion machines.

MOLGROUP CHEMICALS

Last revision: August/2025

TECHNICAL DATASHEET

POLYPROPYLENE TIPPLEN K 691

Impact copolymer for extrusion applications

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. 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. 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. MOL Petrochemicals is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time PP TIPPLEN 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 27 mm/min, horizontal position, measured on press moulded specimens (size 350 x 100 x 2 mm).

MOLGROUP CHEMICALS

Manufacturer website: https://mol.hu/en/

TECHNICAL DATASHEET

POLYPROPYLENE TIPPLEN K 691

Impact copolymer for extrusion applications

MANUFACTURER

MOL Petrochemicals Co. Ltd.
H-3581 Tiszaújváros,
P.O. Box: 20
Hungary

TECHNICAL SUPPORT

POLYMER APPLICATIONS ENGINEERING
MOL PLC.
H-3581 Tiszaújváros,
P.O. Box: 20
Hungary
Telephone:
+36 49 521 540
+36 80 204 248
E-mail: pts@mol.hu

SALES OFFICES

HUNGARY

MOL Plc.
H-3581 Tiszaújváros,
P.O. Box: 20, Hungary
Mobile: +36 30 411 0643
E-mail: polymersales@mol.hu

SLOVAKIA AND CZECH REPUBLIC

SLOVNAFT, a.s.
Vlčie hrdlo 1
824 12 Bratislava, Slovak Republic
Mobile:
+421 907 704 627
+421 918 716 113
+421 910 841 456
E-mail: predajpolymerov@slovnaft.sk

GERMANY

MOL Germany GmbH
Ottostrasse 5
D-80333 München, Germany
Telephone: +49 69 154 04 0
Fax: +49 69 154 04 41
E-mail:
polymersales@molgermany.de

ITALY

MOL Italia S.r.l.
Via San Vigilio, 1
20142 Milano (MI)
Telephone: +39 02 58 30 5523
E-mail: molitalia@molgroupitaly.it

AUSTRIA

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

FRANCE

Mr. Zoltán Marton
Mobile : +39 335 572 2306
E-mail:
zoltan.marton@molgroupitaly.it

POLAND

Slovnaft Polska S.A.
PL.Blankowy 1
00-139 Warszawa, Poland
Telephone: +48 22 545 70 70
E-mail: petchem@slovnaft.pl

ROMANIA

MOL Romania Petroleum Products SRL
Str.Daniel Danielopolu 4-6
ET1 Sector 1 Cod 014 134
Bucuresti, Romania
Mobile: +40 730 33 60 02
E-mail: petchem@molromania.ro

UKRAINE

MOL Ukraine Llc.
04053 Kyiv
Sichovykh Striltsiv str. 50, 5th floor, office 5-B, Ukraine
Tel.: +380 44 374 00 80
Mobile: +380 67 463 58 69
Fax: +380 44 374 00 90

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

TIFON d.o.o.
Zadarska 80
HR-10000 Zagreb, Croatia
Mobile: +385 91 4641 023
Fax: +385 1 6160 601
E-mail: polymersales@tifon.hr

OTHER EUROPEAN COUNTRIES

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

DISCLAIMER

©2025 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.

MOLGROUP CHEMICALS