

# OFF GRADE TECHNICAL DATASHEET

## **POLYPROPYLENE TIPPLEN K 610**

Impact copolymer off grade for injection moulding

### **DESCRIPTION**

TIPPLEN K 610 is an impact copolymer polypropylene coming from product changes during first grade production or it includes materials, which are out of specified range of first grades. It contains chemical additives; the additive content is unknown and not defined. This grade does not contain any mechanical pollutions or burnt particles. MFR and quality parameters within the specification range can show inhomogeneity, so their values can vary even within one lot because of the way of their production method.

### **APPLICATIONS**

TIPPLEN K 610 is suitable for injection moulding.

### **PROPERTIES\***

Parameter	Test method	Unit	Specified range
MFR - Melt Mass-Flow Rate (230°C, 2.16 kg)	ISO 1133-1	g/10 min	1.5 - 3.5
Recommended Processing Temperature	-	°C	190 - 240

\*Mechanical properties are not measured and not guaranteed.

### **PROCESSING**

TIPPLEN K 610 can be used in conventional injection moulding machines.

# OFF GRADE TECHNICAL DATASHEET

## **POLYPROPYLENE TIPPLEN K 610**

Impact copolymer off grade for injection moulding

### **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.

# OFF GRADE TECHNICAL DATASHEET

## POLYPROPYLENE TIPPLEN K 610

Impact copolymer off grade for injection moulding

### 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 30 447 4441  
E-mail: polymersales@mol.hu

#### SLOVAKIA AND CZECH REPUBLIC

SLOVNAFT, a.s.  
Vičie 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

©2023 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

MOL Germany GmbH  
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

MOL Italia S.r.l.  
Via Montefeltro, 4  
20156 Milano, Italy  
Telephone: +39 02 58 30 5523  
Fax: +39 02 58 30 3492  
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

Paris, France  
Mobile : +33 7 89 86 10 64  
E-mail: iren.husson@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  
Telephone:  
+40 21 204 85 00  
+40 21 204 85 02  
E-mail: petchem@molromania.ro

### UKRAINE

MOL Ukraine Llc.  
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

TIFON d.o.o.  
Zadarska 80  
HR-10000 Zagreb, Croatia  
Telephone: +385 1 6160 637  
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