

TECHNICAL DATASHEET

POLYPROPYLENE TIPPLEN R 159 A

Random copolymer for injection moulding

DESCRIPTION

TIPPLEN R 159 A is a random copolymer polypropylene for injection moulding applications. The products made of this grade shows excellent transparency and gloss. The product is formulated with a clarifying agent and with a special optical additive.

APPLICATIONS

TIPPLEN R 159 A is recommended for injection moulding for the production of household articles, containers and packaging products. It is applicable for microwave oven usage.

TIPPLEN R 159 A 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	30
Tensile Stress at Yield	2	ISO 527-1,2	MPa	29
Tensile Strain at Yield	2	ISO 527-1,2	%	13
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	1100
Flexural Modulus	2	ISO 178	MPa	1100
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m ²	5
Hardness - Rockwell	2	ISO 2039-2	R scale	75
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	89
Recommended Processing Temperature	-	-	°C	185 - 230

*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 R 159 A can be used in conventional injection moulding machines.

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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.

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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

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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