TECHNICAL DATASHEET

POLYPROPYLENE TIPPLEN H 659 F

Homopolymer for extrusion applications

DESCRIPTION

TIPPLEN H 659 F is a homopolymer polypropylene with medium molecular weight and excellent mechanical properties for extrusion. It has excellent optical properties and very high modulus values. This grade includes nucleating agent but does not contain antiblocking and slip agent.

APPLICATIONS

TIPPLEN H 659 F is recommended for extrusion of sheets for thermoforming household articles, blow moulded bottles, packaging for diary products, fruit-trays, biscuits, chocolates etc. Due to outstanding heat deflection temperature (HDT), this grade is exquisitely applicable for food packaging, which are filled hot.

TIPPLEN H 659 F 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	1.7
Tensile Stress at Yield	2	ISO 527-1,2	MPa	38
Tensile Strain at Yield	2	ISO 527-1,2	%	9
Flexural Modulus	2	ISO 178	MPa	1850
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m²	10
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	110
Recommended Processing Temperature	-	-	°C	190 - 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 H 659 F can be used in conventional extrusion and injection moulding machines.

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Last revision: August/2025

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

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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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