

TECHNICAL DATA SHEET

POLYPROPYLENE TIPPLEN K 618

Impact copolymer for extrusion applications

Temporary

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DESCRIPTION

TIPPLEN K 618 is a high molecular weight impact copolymer polypropylene for the extrusion and injection moulding applications. **TIPPLEN K 618** offers good impact strength, good stiffness and excellent processability.

APPLICATIONS

TIPPLEN K 618 is recommended for sheet extrusion, blow moulded bottles and for injection moulding. This grade is also recommended for heavy-duty packaging and large containers.

PROPERTIES

	Test method	Unit	Typical value
MFR (230 °C /2.16 kg)	ISO 1133-1	g/10 min	1.5
Flexural Modulus *	ISO 178	MPa	1300
Modulus of Elasticity in Tension *	ISO 527-1,2	MPa	1400
Tensile Strength at Yield *	ISO 527-1,2	MPa	34
Tensile Strain at Yield *	ISO 527-1,2	%	10
Izod Impact Strength (notched,23 °C) *	ISO 180/A	kJ/m ²	26
Izod Impact Strength (notched, -20 °C) *	ISO 180/A	kJ/m ²	4
HDT (0.45 MPa) *	ISO 75-1,2	°C	85
Rockwell Hardness *	ISO 2039/2	R scale	76

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 618 can be used in conventional extrusion and injection moulding machines. Recommended processing temperature 190 – 240 °C.

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STORAGE AND HANDLING

Pellets are packed in 25 kg PE-LD bags and transported on stretch or shrink-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are available as well. 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. Transportation in a road silo or rail silo is also available. For more detailed information please contact SLOVNAFT 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. TVK Plc. 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%.

SAFETY

See MSDS.

RECYCLING

Polypropylene resins are suitable for recycling using modern recycling methods. 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 equipment used, the processing conditions may differ.

The recommendations and data herein are to be construed as informational 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.

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