

TWO COLOURS



ONE DIRECTION

Polypropylene

TIPPLEN K 499

Impact copolymer for injection moulding

Description

TIPPLEN K 499 is an impact copolymer polypropylene with ethylene content for injection moulding. The product offers high flow and high impact strength and stiffness due to the ethylene content.

TIPPLEN K 499 shows excellent heat stability and resistance.

Applications

TIPPLEN K 499 is well suited for automotive components, dashboard support, cooling water compensation reservoirs, brake fluid reservoirs, door trim panels, luggage compartment trims and battery cases.

TIPPLEN K 499 is suitable for food contact. The product complies to Food Contact Regulations.

Properties

	Test method	Unit	Typical value
MFR (230 °C/2.16 kg)	ISO 1133	g/10 min	6.5
Tensile strength at yield*	ISO 527-1,2	MPa	25.5
Tensile elongation at yield *	ISO 527-1,2	%	8.5
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1100
Flexural modulus *	ISO 178	MPa	1050
Izod impact strength (notched, 23 °C) *	ISO 180/1A	kJ/m ²	10
Izod impact strength (notched, -20 °C) *	ISO 180/1A	kJ/m ²	4.5
HDT (0.46 N/mm ²) *	ISO 75-1,2	°C	83
Rockwell hardness *	ISO 2039/2	R scale	77

* 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.

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Processing

TIPPLEN K 499 can be used in conventional injection moulding machines. Recommended processing temperature 190– 240 °C.

Storage and Handling

Pellets are packed in 25 kg PE-LD bags and transported on shrink-wrapped pallets at eligible load of polymer 1250 or 1375 kg. Transportation in a road silo or rail silo is also available.

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. Producer does not take responsibility for any damages caused by adverse storage.

Polymer should be handled and stored away from contact with direct flames and other ignition sources.

Safety

See MSDS.

Recycling

Polypropylene resins are suitable for recycling using modern methods of shredding and cleaning.

In-house production waste should be kept clean to facilitate direct recycling.

Notes

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 informative 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.

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