

TECHNICAL DATA SHEET

POLYPROPYLENE TIPPLEN K 880

Impact copolymer for extrusion applications

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

DESCRIPTION

TIPPLEN K 880 is a high molecular weight impact copolymer polypropylene for extrusion. The product shows excellent impact strength even at low temperature.

TIPPLEN K 880 offers excellent heat and detergent resistance, very good weld ability.

APPLICATIONS

TIPPLEN K 880 is recommended for blow moulded appliance components, wheels, under-the-hood automotive parts, toolboxes, suitcases and large containers. This grade is also recommended for extrusion of pipes, fittings, tough sheet for industrial applications and thermoforming trays for storage in refrigerator.

TIPPLEN K 880 is suitable for food contact. The product complies with Food Contact Regulations.

PROPERTIES

	Test method	Unit	Typical value
MFR (230 °C /2.16 kg)	ISO 1133-1	g/10 min	0.35
Flexural modulus *	ISO 178	MPa	1500
Modulus of Elasticity in Tension *	ISO 527-1,2	MPa	1300
Tensile Strength at Yield *	ISO 527-1,2	MPa	30
Tensile Strain at Yield *	ISO 527-1,2	%	10
Izod Impact Strength (notched, 23 °C) *	ISO 180/A	kJ/m ²	56
Izod Impact Strength (notched, -20 °C) *	ISO 180/A	kJ/m ²	8.0
HDT (0.45 MPa) *	ISO 75-1,2	°C	97
Rockwell Hardness *	ISO 2039/2	R scale	76
OIT (Oxidation induction time at 200 °C)	EN 728	min	30

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 880 can be used in conventional extrusion machines.

Recommended processing temperature 195 - 250 °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 MOL Petrochemicals 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. 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%.

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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