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TEMPORARY DATA SHEET

Polypropylene TIPPLEN H 659 F

Innovated Homopolymer for extrusion

Description

TIPPLEN H 659 F is a specially developed nucleated homopolymer polypropylene with medium molecular weight and excellent mechanical properties for extrusion. The stiffness of the product is unique (see the modulus values in the table).

The product shows excellent optical properties and high transparency. The product shows 40 % haze value in contrast with 70 % as typical value of homopolymer measured at pressed plate.

Applications

Typical application include the extrusion of sheets for thermoforming household articles, blow moulded bottles, packaging for diary products, fruit-trays, biscuits, chocolates etc.

Properties

	Test method	Unit	Typical value
MFR (230 °C/2.16 kg)	ISO 1133	g/10 min	2
Haze (at 2 mm pressed plate)	ISO14782	%	40
Tensile strength at yield*	ISO 527-1,2	MPa	41
Tensile strength at break*	ISO 527-1,2	MPa	14.5
Tensile elongation at yield *	ISO 527-1,2	%	8
Tensile elongation at break *	ISO 527-1,2	%	63
Modulus of elasticity in tension *	ISO 527-1,2	MPa	1900
Flexular modulus *	ISO 178	MPa	2000
Izod impact strength (notched,23 °C) *	ISO 180/1A	kJ/m²	5
Izod impact strength (notched,0 °C) *	ISO 180/1A	kJ/m²	2
Charpy impact strength (notched,23 °C) *	ISO 179	kJ/m²	5.5
Charpy impact strength (notched,0°C) *	ISO 179	kJ/m²	2
HDT (0.46 N/mm²) *	ISO 75-1,2	°C	117
Rockwell hardness *	ISO 2039/2	R scale	105

^{*} Typical properties, not to be used as specification.

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Processing

TIPPLEN H 659 F can be used in conventional extrusion and injection moulding machines.

Recommended processing temperature 190 – 245 °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.

According to our best knowledge TIPPLEN H 659 F fulfill the requirements of 2002/72/EC and its amendments relating to plastic materials and articles intended to come into contact with foodstuffs. The certification process is in progress.

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 informatory 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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Sept 2008

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