PRODUCT DATA SHEET

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Polypropylene Homopolymer

HMR127

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MFR: 8.5 g/10min

Density: 0.905 g/cm^3

Features

- Medium flow
- Specially formulated for processing on both cast and water quenched blown film lines
- Very good clarity
- Fast migrating slip agent
- Low tendency to block
- Good toughness

Applications

Extrusion

- Garment packaging
- Flower sleeves
- Food and confectionery packaging

Additives

- Antioxidant
- Processing stabiliser
- Acid scavenger
- Slip and Anti-block

Typical properties (not to be construed as specifications)		Value (SI)	Value (English)	Method
Resin Properties	Melt mass-flow rate – MFR (230/2.16)	8.5 g/10min	8.5 g/10min	ISO 1133
Film Properties (50µm water quenched blown film)	Gloss 20°	100	100	ASTM D2457
	Haze	2.5 %	2.5 %	ISO 14782
	Tensile strength at break – MD	44 MPa	6 380 psi	ISO 527-3
	Tensile strength at break – TD	40 MPa	5 800 psi	ISO 527-3
	Tensile strain at break – MD	700 %	700 %	ISO 527-3
	Tensile strain at break – TD	730 %	730 %	ISO 527-3
	Dart impact (F50)	300 g	300 g	ISO 7765-1
	Coefficient of friction (Static)	0.20	0.20	ISO 8295
	Coefficient of friction (Dynamic)	0.17	0.17	ISO 8295

The values quoted in the table were determined on film specimens produced to internal standards. The properties of film depends considerably on the processing conditions used.
This aspect must be considered should the values be compared with properties of film produced using different conditions.

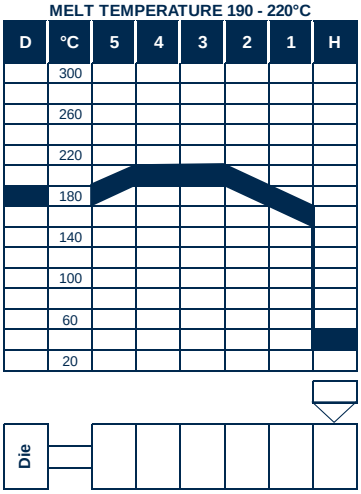
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Typical processing conditions – HMR127

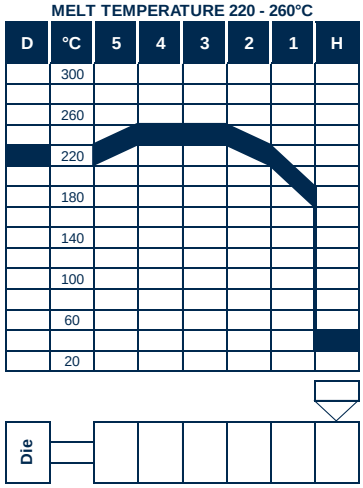
Blown film extrusion

MELT TEMPERATURE 190 - 220°C



Cast film extrusion

MELT TEMPERATURE 220 - 260°C



Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours. Please consult the material safety data sheet (SDS) for more detailed information.

Storage

As ultraviolet light may cause a change in material properties, all resins should be protected from direct sunlight during storage. If stored in cool (<25°C), dry area with low ambient light levels, polyolefin resins are expected to maintain their original material and processing properties for at least 12 months.

Combustibility

Polypropylene resins will burn when supplied adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources. In burning, polypropylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water, water mist being preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.

Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles that are contained in all polypropylene resins. The fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

- be equipped with adequate filters
- is operated and maintained in such a manner to ensure no leaks develop
- that adequate grounding exists at all times

It is further recommended that good housekeeping is practiced throughout the facility.

Regulatory & Legal Compliance

This material complies with FDA regulation 21 CFR 177.1520 when used unmodified and according to good manufacturing practices for food contact applications. Refer to applicable food contact compliance statement which is available on request.

This material is not medically approved and should therefore not be used in any such application.

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