

# HMR127

Polypropylene homopolymer

**Sasol Polymers  
Polyolefins Business**

## Sasol Polymers PP: HMR127

**MFR: 8.5g/10min**

### 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
- High toughness

### Applications

#### Extrusion

- Garment packaging
- Flower sleeves
- Food and confectionary packaging

### Additives

- General purpose
- Slip
- Anti-block

### Material properties (typical values not to be construed as specifications)

	Value	Unit	Test method
<b>Rheological properties</b> Melt mass-flow rate - MFR (230/2.16)	8.5	g/10 min	ISO 1133
<b>Film properties (50µm water quenched blown film)</b> Gloss 20°	100	units	ASTM D2457
Haze	2.5	%	ISO 14782
Tensile strength at break - MD	44	MPa	ISO 527-3
Tensile strength at break - TD	40	MPa	ISO 527-3
Tensile strain at break - MD	700	%	ISO 527-3
Tensile strain at break - TD	730	%	ISO 527-3
Dart impact (F50)	300	g	ISO 7765-1
Coefficient of friction (Static)	0.20	~	ISO 8295
Coefficient of friction (Dynamic)	0.17	~	ISO 8295
<b>Other properties</b> Density	0.905	g/cm <sup>3</sup>	ISO 1183-1

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.

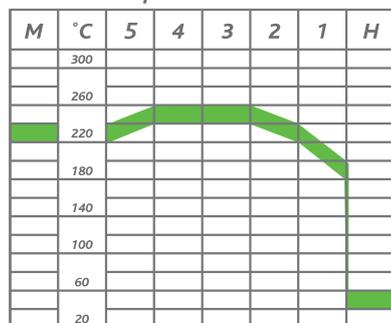




## Typical processing conditions

### Cast film extrusion

Melt temperature 220 - 260°C



Chill roll water temperature 15-30°C

### Blown film extrusion

Melt temperature 190 - 220°C



Quench water temperature 10-15°C

## Packaging

Sasol Polymers polyolefin resins are supplied in pellet form packed in 25kg bags. Alternative packaging modes for polypropylene resins are available for selected grades.

## Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses and heat resistant gloves are suggested as a minimal precaution to prevent possible mechanical or thermal injuries to the eyes and skin. Fabrication areas should be ventilated to carry away fumes or vapours.

Conveying equipment should be designed to prevent accumulation of fines or dust particles that are contained in all polyolefin resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. Sasol Polymers recommend 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

Sasol Polymers further recommend that good housekeeping be practised throughout the manufacturing facility. Polymer pellets may pose a slippage hazard if spilled.

## Storage

As ultraviolet light may cause a change in the material properties, all polyolefin resins should be protected from direct sunlight during storage. Under cool, dry, dark conditions Sasol Polymers polyolefin resins are expected to maintain their original material and processing properties for at least 18 months.

