PRODUCT DATA SHEET



PP PP PP PP PP PP PP PP	PP PP PP PP PP PP PP PP
Polypropylene Homopolymer	Technical support:Sales office:Polymer Technology ServicesSasol Base ChemicalsCentrePO Box 548622 Pressburg Road,Johannesburg, 2000Maddafasteira4000
HSV103	Modderfontein, 1609 South Africa South Africa Tel: +27 (0)11 458 0700 Tel: +27 (0)10 344 5000 Fax: +27 (0)11 458 0734 E-mail: polymers@sasol.com
Date of issue: February 2020	www.sasol.com

MFR: 30 g/10min

Features

- High flow
- Narrow molecular weight distribution
- Offers easy extrusion processibility when producing:
 - Spunbond nonwoven fabric
 - BCF carpet yarn on in-line or two stage spin/draw/texturizing processes
 - Continuous multifilament (CF) on multi position spin/draw/wind or short spin/warp draw/wind processes
- Suitable for use in the extrusion coating process where it offers melt curtain stability and less necking

Applications

Extrusion

- Spunbond fabric for industrial applications (roofing membranes, geotextiles)
- Spunbond fabric for hygiene applications (nappy liners, medical gowns and masks)
- Carpet yarns
- Hair braids
- Extrusion coating of PP woven cloth

Density: 0.905 g/cm³

Additives

- Antioxidant (anti-gas fading)
- Processing stabiliser
- Acid scavenger

Typical prop	erties (not to be construed as specifications)	Value (SI)	Value (English)	Method
Resin Properties	Melt mass-flow rate – MFR (230/2.16)	30 g/10min	30 g/10min	ISO 1133
Physical Properties	Flexural modulus	1 350 MPa	195 800 psi	ISO 178
	Tensile modulus of elasticity	1 400 MPa	203 050 psi	ISO 527-2
	Tensile stress at yield	32 MPa	4 640 psi	ISO 527-2
	Tensile strain at yield	8.5 %	8.5 %	ISO 527-2
	Tensile strain at break	>50 %	>50 %	ISO 527-2
	Charpy notched impact strength (23°C)	2.5 kJ/m ²	1.2 ft·lbf/in ²	ISO 179-1
	Ball indentation hardness – HB	68 N/mm ²	9 860 psi	ISO 2039-1
Thermal Properties	Melting temperature – DSC	166°C	330°F	ISO 11357-3
	Heat deflection temperature – HDT / A (1.8 MPa)	52°C	125°F	ISO 75-2
	Heat deflection temperature – HDT / B (0.45 MPa)	83°C	181°F	ISO 75-2
	Vicat softening temperature – VST / A120 (10 N)	152°C	306°F	ISO 306

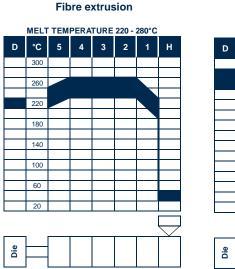


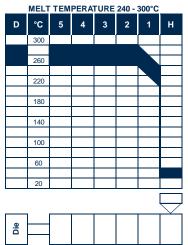
PRODUCT DATA SHEET



Extrusion coating

Typical processing conditions – HSV103





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 and Shelf Life

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 from production.

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.

This publication contains information provided in good faith and is indicative, based on Sasol's current knowledge on the subject. No guarantee or warranty is intended or implied. We reserve the right to make changes as a result of technological progress or development. Any information, including suggestions for use of products, should not preclude experimental testing and verification, to ensure the suitability of a product for each specific application. Users must also abide by local and international laws and obtain all necessary permits when required to do so. Prior to handling a hazardous product, consult it's safety data sheet. In case of questions or queries, please contact Sasol through our customer service channels. All products purchased from Sasol Chemicals are subject to the terms and conditions as set out in the contract, order confirmation and/or bill of lading.