



Polypropylene Random Copolymer

ETV265

Technical support:
 Polymer Technology Services Centre
 22 Pressburg Road,
 Modderfontein, 1609
 South Africa

Tel: +27 (0)11 458 0700
 Fax: +27 (0)11 458 0734

Sales office:
 Sasol Base Chemicals
 PO Box 5486
 Johannesburg, 2000
 South Africa

Tel: +27 (0)10 344 5000
 E-mail: polymers@sasol.com

Date of issue: April 2017

www.sasol.com

MFR: 50 g/10min

Density: 0.905 g/cm³

Features

- Very high flow
- Narrow molecular weight distribution
- Particularly suitable for injection moulding of articles where good transparency (high clarity) and excellent surface gloss are required
- Contains a nucleating agent which ensures rapid crystallisation, resulting in improved cycle times due to shorter cooling times

Applications

Injection moulding

- Food containers
- Cosmetic containers
- Household and domestic articles
- Caps and closures
- Aerosol dust covers
- Stationery items

Additives

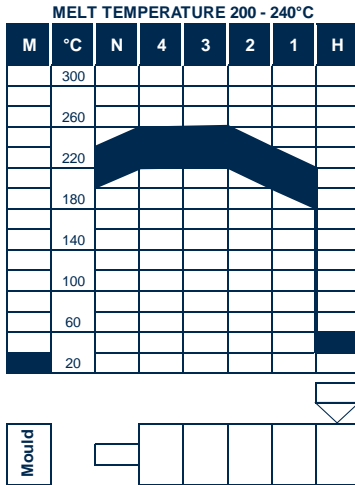
- Antioxidant
- Processing stabiliser
- Acid scavenger
- Nucleation (high clarity)
- Mould release

Typical properties (not to be construed as specifications)		Value (SI)	Value (English)	Method
Resin Properties	Melt mass-flow rate – MFR (230/2.16)	50 g/10min	50 g/10min	ISO 1133
	Moulding Shrinkage – S_{Mp} / S_{Mn}	1.2 / 1.2 %	1.2 / 1.2 %	ISO 294-4
Physical Properties	Flexural modulus	1 000 MPa	145 035 psi	ISO 178
	Tensile modulus of elasticity	1 050 MPa	152 290 psi	ISO 527-2
	Tensile stress at yield	28 MPa	4 060 psi	ISO 527-2
	Tensile strain at yield	11 %	11 %	ISO 527-2
	Tensile strain at break	>50 %	>50 %	ISO 527-2
	Charpy notched impact strength (23°C)	5.0 kJ/m ²	2.4 ft·lbf/in ²	ISO 179-1
	Charpy notched impact strength (0°C)	2.5 kJ/m ²	1.2 ft·lbf/in ²	ISO 179-1
Thermal Properties	Ball indentation hardness – HB	50 N/mm ²	7 250 psi	ISO 2039-1
	Melting temperature – DSC	152°C	306°F	ISO 11357-3
	Heat deflection temperature – HDT / A (1.8 MPa)	45°C	113°F	ISO 75-2
	Heat deflection temperature – HDT / B (0.45 MPa)	68°C	154°F	ISO 75-2
Other Properties	Vicat softening temperature – VST / A120 (10 N)	128°C	262°F	ISO 306
	Haze (1.0 / 2.0 mm injection moulded plaques)	6.0 / 17 %	6.0 / 17 %	ISO 14782



Typical processing conditions – ETV265

Injection moulding



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.

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.