PRODUCT DATA SHEET



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|---------------------------|--|
| Polypropylene Homopolymer | Technical support:Sales office:Polymer Technology ServicesSasol Base ChemicalsCentrePO Box 548622 Pressburg Road,Johannesburg, 2000Maddafastaria1000 |
| HRV140 | 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 |
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Features

High flow

Narrow molecular weight distribution

MFR: 20 g/10min

- Suitable for injection moulded products where rigidity and shorter cycle times are required
- Contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times
- The grade is produced to a wider than normal product specification

Applications

Injection moulding

- Caps and closures
- Household and domestic articles
- Cosmetic and toiletry components

Density: 0.905 g/cm³

Additives

- Antioxidant
- Processing stabiliser
- Acid scavenger
- Nucleation

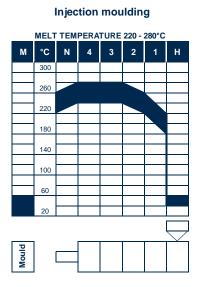
| Typical prop | erties (not to be construed as specifications) | Value (SI) | Value (English) | Method |
|------------------------|--|-----------------------|----------------------------|-------------|
| Resin Properties | Melt mass-flow rate – MFR (230/2.16) | 20 g/10min | 20 g/10min | ISO 1133 |
| | Moulding Shrinkage – S _{Mp} / S _{Mn} | 1.3 / 1.3 % | 1.3 / 1.3 % | ISO 294-4 |
| Physical Properties | Flexural modulus | 1 550 MPa | 224 810 psi | ISO 178 |
| | Tensile modulus of elasticity | 1 600 MPa | 232 060 psi | ISO 527-2 |
| | Tensile stress at yield | 34 MPa | 4 930 psi | ISO 527-2 |
| | Tensile strain at yield | 8.0 % | 8.0 % | ISO 527-2 |
| | Tensile strain at break | >50 % | >50 % | ISO 527-2 |
| | Charpy notched impact strength (23°C) | 3.0 kJ/m ² | 1.5 ft·lbf/in ² | ISO 179-1 |
| | Ball indentation hardness – HB | 73 N/mm ² | 10 590 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) | 84°C | 183°F | ISO 75-2 |
| | Vicat softening temperature – VST / A120 (10 N) | 153°C | 307°F | ISO 306 |







Typical processing conditions – HRV140



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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