

PRODUCT DATA SHEET



<div> <div> PP PP PP PP PP PP PP PP PP PP PP PP PP PP PP PP </div> <div> Polypropylene Random Copolymer ESV265 </div> </div>																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			
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MFR: 35 g/10min

Density: 0.905 g/cm³

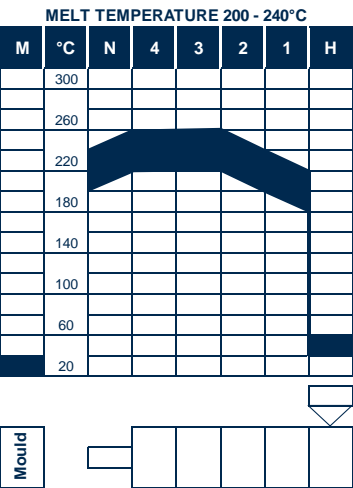
Features <ul style="list-style-type: none"> • Very high flow • Narrow molecular weight distribution • Particularly suitable for injection moulding of articles where good transparency (high clarity) and excellent surface gloss are required • Contains a nucleating agent which ensures rapid crystallisation, resulting in improved cycle times due to shorter cooling times 	Applications <u>Injection moulding</u> <ul style="list-style-type: none"> • Food containers • Cosmetic containers • Household and domestic articles • Caps and closures • Aerosol dust covers • Stationery items 	Additives <ul style="list-style-type: none"> • Antioxidant • Processing stabiliser • Acid scavenger • Nucleation (high clarity) • Mould release
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Typical properties (not to be construed as specifications)		Value (SI)	Value (English)	Method
Resin Properties	Melt mass-flow rate – MFR (230/2.16)	35 g/10min	35 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	1 100 MPa	159 540 psi	ISO 178
	Tensile modulus of elasticity	1 150 MPa	166 790 psi	ISO 527-2
	Tensile stress at yield	29 MPa	4 200 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
	Ball indentation hardness – HB	50 N/mm ²	7 250 psi	ISO 2039-1
Thermal Properties	Melting temperature – DSC	152°C	306°F	ISO 11357-3
	Heat deflection temperature – HDT / A (1.8 MPa)	46°C	115°F	ISO 75-2
	Heat deflection temperature – HDT / B (0.45 MPa)	70°C	158°F	ISO 75-2
	Vicat softening temperature – VST / A120 (10 N)	130°C	266°F	ISO 306
Other Properties	Haze (1.0 / 2.0 mm injection moulded plaques)	6.0 / 17 %	6.0 / 17 %	ISO 14782



Typical processing conditions – ESV265

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.

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