

## PP

## PP SP179

## POLYPROPYLENE IMPACT COPOLYMER (PP)

This grade is a polypropylene impact (block) copolymer produced by introducing an ethylene-propylene rubber phase into a semi-crystalline polypropylene homopolymer matrix. The heterophasic microstructure gives a favorable balance of stiffness and impact toughness, including good impact retention at sub-zero temperature, making it suitable for automotive components.

## Typical Application

- Automotive parts

## Product Characteristics

- Heterophasic (rubber-toughened) impact copolymer microstructure
- Medium melt flow suited to injection moulding of automotive components
- Retains impact toughness at low temperature

## Physical Properties

| Properties                          | Test Method | Typical Value | Unit              |
|-------------------------------------|-------------|---------------|-------------------|
| Melt Flow Rate<br>(230°C/2.16 kg)   |             | 9             | g/10 min          |
| Tensile Strength at Yield           |             | 22            | MPa               |
| Elongation at Break                 |             | 600           | %                 |
| Notched Impact Strength<br>(23°C)   |             | 48            | kJ/m <sup>2</sup> |
| Notched Impact Strength (-<br>20°C) |             | 9             | kJ/m <sup>2</sup> |
| Flexural Modulus                    |             | 800           | MPa               |

1. The producer's own family brochure lists slightly different typical values for notched impact strength and flexural modulus for this grade (23°C notched impact 54 kJ/m<sup>2</sup>, flexural modulus 1100 MPa); both sets are broadly consistent with an impact copolymer of this melt flow and tensile strength, and the difference is treated here as normal inter-batch/inter-plant typical-value variance rather than a different product.

2. Typical values per the producer's published data; a grade-specific certificate of analysis is supplied per lot at order.

3. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.