



## Moplen HP548R

### Polypropylene, Homopolymer

#### Product Description

Moplen HP548R is a nucleated homopolymer with antistatic additivition used for injection moulding applications.

Moplen HP548R exhibits a good stiffness combined with a good flowability.

The main applications of Moplen HP548R are caps, closures, furniture and housewares.

Moplen HP548R is suitable for food contact.

#### Product Characteristics

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Status                        | Commercial: Active                                        |
| Test Method used              | ISO                                                       |
| Availability                  | Europe, Africa-Middle East                                |
| Processing Methods            | Injection Molding                                         |
| Features                      | Antistatic, Good Flow, Nucleated, Good Stiffness          |
| Typical Customer Applications | Caps & Closures, Furniture, Housewares, Opaque Containers |

| Typical Properties                                                | Method        | Value | Unit                   |
|-------------------------------------------------------------------|---------------|-------|------------------------|
| <b>Physical</b>                                                   |               |       |                        |
| Density                                                           | ISO 1183      | 0.9   | g/cm <sup>3</sup>      |
| Melt flow rate (MFR) (230°C/2.16kg)                               | ISO 1133      | 23    | g/10 min               |
| Melt volume flow rate (230°C/2.16kg)                              | ISO 1133      | 31    | cm <sup>3</sup> /10min |
| <b>Mechanical</b>                                                 |               |       |                        |
| Tensile Modulus                                                   | ISO 527-1, -2 | 1650  | MPa                    |
| Tensile Stress at Yield                                           | ISO 527-1, -2 | 35    | MPa                    |
| Tensile Strain at Break                                           | ISO 527-1, -2 | >50   | %                      |
| Tensile Strain at Yield                                           | ISO 527-1, -2 | 8     | %                      |
| <b>Impact</b>                                                     |               |       |                        |
| Charpy unnotched impact strength (23 °C, Type 1, Edgewise)        | ISO 179       | 110   | kJ/m <sup>2</sup>      |
| Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A) | ISO 179       | 2.5   | kJ/m <sup>2</sup>      |
| <b>Hardness</b>                                                   |               |       |                        |
| Ball indentation hardness (H 358/30)                              | ISO 2039-1    | 78    | MPa                    |
| <b>Thermal</b>                                                    |               |       |                        |
| Heat deflection temperature B (0.45 MPa) Unannealed               | ISO 75B-1, -2 | 95    | °C                     |
| Vicat softening temperature (A50 (50°C/h 10N))                    | ISO 306       | 154   | °C                     |
|                                                                   |               | 94    | °C                     |

#### Notes

Typical properties; not to be construed as specifications.