Technical Data Sheet

# *Moplen* EP548V

Polypropylene, Impact Copolymer

## Product Description

*Moplen* EP548V is a nucleated heterophasic copolymer with antistatic additivation used for injection moulding applications. It exhibits an outstanding balance of mechanical properties combined with a high fluidity. *Moplen* EP548V is extensively used in housewares and in thin-walled containers for food packaging (e.g. margerine tubs, yoghurt pots, etc.).

This grade is not intended for medical and pharmaceutical applications.

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|---|---|
| **Application** | Housewares; Opaque Containers; Sports, Leisure & Toys |
| **Market** | Consumer Products; Rigid Packaging |
| **Processing Method** | Injection Molding |
| **Attribute** | Contains Antistat; Good Organoleptic Properties; Good Processability; High Flow; High Rigidity; High Stiffness; Impact Copolymer; Nucleated |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 100 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.90 | g/cm³ | ISO 1183-1 |
| **Mechanical** | | | |
| Tensile Modulus | 1450 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 28 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 10 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 5 | % | ISO 527-1, -2 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 4 | kJ/m² | ISO 179 |
| (0 °C, Type 1, Edgewise, Notch A) | 2.5 | kJ/m² | ISO 179 |
| (-20 °C, Type 1, Edgewise, Notch A) | 2 | kJ/m² | ISO 179 |
| Ductile/Brittle Transition Temperature | -45 | °C | ISO 6603-2 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A/50) | 152 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 90 | °C | ISO 75B-1, -2 |