Technical Data Sheet

# *Moplen* EP300M

Polypropylene, Impact Copolymer

## Product Description

*Moplen* EP300M is a heterophasic copolymer for injection moulding . The product offers an excellent balance of stiffness, impact strength and processability. Typical applications fo *Moplen* EP300M are thin walled packaging, housewares and automotive parts.

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| **Application** | Crates; Housewares; Industrial |
| **Market** | Automotive; Compounding; Consumer Products; Rigid Packaging |
| **Processing Method** | Compounding; Injection Molding |
| **Attribute** | Good Impact Resistance; Good Processability; Good Stiffness |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 7 | g/10 min | ISO 1133-1 |
| Density | 0.89 | g/cm³ | ISO 1183-1 |
| **Mechanical** | | | |
| Flexural Modulus | 1000 | MPa | ISO 178 |
| Tensile Modulus | 900 | MPa | ISO 527-1, -2 |
| Tensile Stress at Break | 17 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 21.5 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 400 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 7 | % | ISO 527-1, -2 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 45 | kJ/m² | ISO 179 |
| (0 °C) | 9 | kJ/m² | ISO 179 |
| (-20 °C, Type 1, Edgewise, Notch A) | 6 | kJ/m² | ISO 179 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A50) | 143 | °C | ISO 306 |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 77 | °C | ISO 75B-1, -2 |
| DSC Melting Point | 163 | °C | DSC |