

## Technical Data Sheet

### Moplen EP448T P9T



Polypropylene, Impact Copolymer

#### Product Description

Moplen EP448T P9T is a nucleated heterophasic copolymer with antistatic additivition used in injection moulding applications.

Moplen EP448T P9T has a high flow, good impact/stiffness balance.

Moplen EP448T P9T is typically used by customers in opaque containers, housewares, toys and closures.

This grade is not intended for medical and pharmaceutical applications.

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | Caps & Closures; Housewares; Opaque Containers; Sports, Leisure & Toys                                |
| <b>Market</b>            | Consumer Products; Rigid Packaging                                                                    |
| <b>Processing Method</b> | Injection Molding                                                                                     |
| <b>Attribute</b>         | Contains Antistat; High Flow; Impact Copolymer; Medium Impact Resistance; Medium Stiffness; Nucleated |

| Typical Properties                                    | Nominal Value | Units             | Test Method   |
|-------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                       |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 48            | g/10 min          | ISO 1133-1    |
| Density, (23 °C)                                      | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                     |               |                   |               |
| Tensile Modulus                                       | 1250          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                               | 27            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                               | >50           | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                               | 5             | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                         |               |                   |               |
| Charpy Impact Strength - Notched                      |               |                   |               |
| (23 °C, Type 1, Edgewise, Notch A)                    | 5             | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C, Type 1, Edgewise, Notch A)                     | 3.5           | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                   | 2.5           | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>                                        |               |                   |               |
| Vicat Softening Temperature, (A50)                    | 151           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 90            | °C                | ISO 75B-1, -2 |