

## Technical Data Sheet

### Moplen EP648V



Polypropylene, Impact Copolymer

#### Product Description

Moplen EP648V is a nucleated, high fluidity heterophasic copolymer with antistatic agent used in thin-walled injection moulding applications.

Moplen EP648V exhibits high stiffness, good dimensional stability and excellent antistatic properties.

Moplen EP648V is typically used by customers in very thin-walled articles as margarine tubs, packaging of dairy products as well as items with a long flow path such as laundry bins and storage systems.

This grade is not intended for medical and pharmaceutical applications.

|                          |                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | Housewares; Opaque Containers                                                                                                |
| <b>Market</b>            | Consumer Products; Rigid Packaging                                                                                           |
| <b>Processing Method</b> | Injection Molding                                                                                                            |
| <b>Attribute</b>         | Contains Antistat; Good Organoleptic Properties; Good Processability; High Flow; High Stiffness; Impact Copolymer; Nucleated |

| Typical Properties                                    | Nominal Value | Units             | Test Method   |
|-------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                       |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 100           | g/10 min          | ISO 1133-1    |
| Density                                               | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                     |               |                   |               |
| Tensile Modulus                                       | 1600          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                               | 30            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                               | 10            | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                               | 4             | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                         |               |                   |               |
| Charpy Impact Strength - Notched                      |               |                   |               |
| (23 °C, Type 1, Edgewise, Notch A)                    | 3.5           | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C, Type 1, Edgewise, Notch A)                     | 2             | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                   | 1.5           | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>                                        |               |                   |               |
| Vicat Softening Temperature, (A50)                    | 154           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 100           | °C                | ISO 75B-1, -2 |