



## Moplen HP648N

### Polypropylene, Homopolymer

#### Product Description

Moplen HP648N is a polypropylene homopolymer. It is nucleated for faster crystallization and also features antistatic properties.

#### Product Characteristics

|                               |                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method used              | ASTM                                                                                                                                       |
| Processing Methods            | Injection Molding                                                                                                                          |
| Features                      | Antistatic, Fast Cycle (Production) , High ESCR (Environmental Stress Cracking Resistance), Nucleated, Good Stiffness , Low Taste Transfer |
| Typical Customer Applications | Caps & Closures, Housewares, Opaque Containers, Sports, Leisure and Toys                                                                   |

| Typical Properties                                    | Method      | Value | Unit              |
|-------------------------------------------------------|-------------|-------|-------------------|
| <b>Physical</b>                                       |             |       |                   |
| Density -Specific Gravity                             | ASTM D 792  | 0.9   | g/cm <sup>3</sup> |
| Melt Flow Rate (230°C/2.16kg)                         | ASTM D 1238 | 12.0  | g/10 min          |
| <b>Mechanical</b>                                     |             |       |                   |
| Flexural Modulus                                      | ASTM D 790  | 1870  | MPa               |
| Tensile Strength @ Yield                              | ASTM D 638  | 38    | MPa               |
| Tensile Elongation @ Yield                            | ASTM D 638  | 8     | %                 |
| <b>Impact</b>                                         |             |       |                   |
| Notched Izod Impact (23 °C)                           | ASTM D 256  | 32    | J/m               |
| <b>Thermal</b>                                        |             |       |                   |
| Heat deflection temperature at 0.46 N/mm <sup>2</sup> | ASTM D 648  | 122   | °C                |