

## Technical Data Sheet

### *Moplen* HP640RK



Polypropylene, Homopolymer

#### Product Description

*Moplen* HP640RK is a polypropylene homopolymer with good transparency, high gloss and excellent stiffness. Typical customer applications are TWIM, houseware, food containers.

|                          |  |
|--------------------------|--|
| <b>Application</b>       | Caps & Closures; Clear Containers; Housewares; Opaque Containers                                 |
| <b>Market</b>            | Consumer Products; Rigid Packaging   |
| <b>Processing Method</b> | Injection Molding  |
| <b>Attribute</b>         | Fast Cycle (Production); Good Flow; Good Processability; High Gloss; High Stiffness; Homopolymer |

| Typical Properties   | Nominal Value | Units             | Test Method |
|--|---------------|-------------------|-------------|
| <b>Physical</b>  |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                             | 24            | g/10 min          | ASTM D1238  |
| Density  | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>  |               |                   |             |
| Flexural Modulus   | 1900          | MPa               | ASTM D790   |
| Tensile Strength at Yield                                    | 38            | MPa               | ASTM D638   |
| Tensile Elongation at Yield                                  | 10            | %                 | ASTM D638   |
| <b>Impact</b>  |               |                   |             |
| Notched Izod Impact Strength, (23 °C)                        | 25            | J/m               | ASTM D256   |
| <b>Hardness</b>  |               |                   |             |
| Rockwell Hardness, (R-Scale)                                 | 110           |                   | ASTM D785   |
| <b>Thermal</b>   |               |                   |             |
| Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> ) | 122           | °C                | ASTM D648   |