

## Technical Data Sheet

### Moplen EP5079

Polypropylene, Impact Copolymer

#### Product Description

Moplen EP5079 is a fractional melt flow heterophasic copolymer with very low gel and low odor, good stiffness impact balance, and good heat resistance. Typical customer applications are multilayer packaging, high heat resistance thermoforming tray, blow molding for cosmetic and detergent bottles, extrusion sheets with high gloss.

|                          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | Bottles For Consumer Goods; General Sheet Extrusion; Opaque Containers; Thermoformed Food Containers |
| <b>Market</b>            | Consumer Products; Rigid Packaging                                                                   |
| <b>Processing Method</b> | Extrusion Blow Molding; Thermoforming                                                                |
| <b>Attribute</b>         | High Gloss; High Heat Resistance; High Impact Resistance; Low Gel; Medium Rigidity                   |

| Typical Properties                                           | Nominal Value | Units             | Test Method |
|--------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                              |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                             | 0.5           | g/10 min          | ASTM D1238  |
| Density                                                      | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                            |               |                   |             |
| Flexural Modulus                                             | 1700          | MPa               | ASTM D790   |
| Tensile Strength at Yield                                    | 34            | MPa               | ASTM D638   |
| Tensile Elongation at Yield                                  | 11            | %                 | ASTM D638   |
| <b>Impact</b>                                                |               |                   |             |
| Notched Izod Impact Strength, (23 °C)                        | No Break      |                   | ASTM D256   |
| <b>Hardness</b>                                              |               |                   |             |
| Rockwell Hardness, (R-Scale)                                 | 100           |                   | ASTM D785   |
| <b>Thermal</b>                                               |               |                   |             |
| Vicat Softening Point                                        | 150           | °C                | ASTM D1525  |
| Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> ) | 120           | °C                | ASTM D648   |