

## Technical Data Sheet

### *Polyfort* POLYPROPYLENE PP 1579-01



Polypropylene, Impact Copolymer

#### Product Description

*Polyfort* PP 1579 is an impact grade of polypropylene for use in parts which require good impact and good appearance in light weight injection molded parts. It meets requirements of Chrysler Corporation Specification MSDB 531F. It is available in current Chrysler Corporation colors in this extra high flow for thin parts or reduced mold cycles.

|                          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| <b>Processing Method</b> | Injection Molding                                                                                    |
| <b>Attribute</b>         | Fast Molding Cycle; Good Impact Resistance; High Flow; Impact Copolymer; Pleasing Surface Appearance |
| <b>Forms</b>             | Pellets                                                                                              |
| <b>Appearance</b>        | Colors Available                                                                                     |
| <b>Application</b>       | Automotive Applications; Thin-walled Parts                                                           |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 20            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 0.898         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Elongation at Yield                            | 5             | %                 | ASTM D638   |
| Tensile Strength at Yield, (51 mm/min)                 | 22.8          | MPa               | ASTM D638   |
| Flexural Modulus, (1.3 mm/min)                         | 1140          | MPa               | ASTM D790   |
| Tensile Elongation at Break                            | 150           | %                 | ASTM D638   |
| <b>Impact</b>                                          |               |                   |             |
| Gardner Impact, (No Standard)                          | 28.2          | J                 | ASTM D3029  |
| Unnotched Izod Impact, (-29 °C)                        | 800           | J/m               | ASTM D4812  |
| Notched Izod Impact                                    | 110           | J/m               | ASTM D256   |
| <b>Hardness</b>                                        |               |                   |             |
| Rockwell Hardness, (R-Scale)                           | 85            |                   | ASTM D785   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 50            | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 85            | °C                | ASTM D648   |
| <b>Flammable</b>                                       |               |                   |             |
| Burning Rate, (FMVSS 302)                              | 51            | mm/min            | FMVSS 302   |