



# Sinpolene GPP5620

Teknor Apex Asia Pacific PTE. LTD. - Polypropylene

## General Information

### General

|                        |                                                          |                                             |                 |
|------------------------|----------------------------------------------------------|---------------------------------------------|-----------------|
| Material Status        | • Commercial: Active                                     |                                             |                 |
| Availability           | • Africa & Middle East                                   | • Asia Pacific                              | • Latin America |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight                      |                                             |                 |
| Features               | • Good Dimensional Stability<br>• Good Impact Resistance | • High Heat Resistance<br>• Medium Rigidity |                 |
| Uses                   | • Automotive Applications                                | • Housings                                  | • Pump Parts    |
| Appearance             | • Colors Available                                       |                                             |                 |
| Forms                  | • Pellets                                                |                                             |                 |
| Processing Method      | • Injection Molding                                      |                                             |                 |

## ASTM & ISO Properties<sup>1</sup>

| Physical                                                           | Nominal Value | Unit     | Test Method |
|--------------------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                                         | 1.03          |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                          | 3.0           | g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow                                           | 3.6E-3        | in/in    | ASTM D955   |
| Molding Shrinkage - Across Flow                                    | 7.7E-3        | in/in    | ASTM D955   |
| Mechanical                                                         | Nominal Value | Unit     | Test Method |
| Tensile Strength (Yield)                                           | 7250          | psi      | ASTM D638   |
| Tensile Elongation (Break)                                         | 25            | %        | ASTM D638   |
| Flexural Modulus                                                   | 355000        | psi      | ASTM D790   |
| Flexural Strength                                                  | 7980          | psi      | ASTM D790   |
| Impact                                                             | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (73°F)                                         | 4.5           | ft-lb/in | ASTM D256   |
| Thermal                                                            | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load<br>66 psi, Unannealed, 0.126 in  | 302           | °F       | ASTM D648   |
| Deflection Temperature Under Load<br>264 psi, Unannealed, 0.126 in | 250           | °F       | ASTM D648   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.