

# HAIPLEN EP50 G6 BA

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer glass fiber reinforced 30% chemical coupled.  
Available: all colors, UV stabilized (L), heat stabilized (H), laser printable (LP), detergent stabilized(D)

| General Information                                     |                                  |                   |                       |
|---------------------------------------------------------|----------------------------------|-------------------|-----------------------|
| Filler / Reinforcement                                  | Glass Fiber,30% Filler by Weight |                   |                       |
| Additive                                                | Heat Stabilizer                  |                   |                       |
|                                                         | UV Stabilizer                    |                   |                       |
| Features                                                | Chemically Coupled               |                   |                       |
|                                                         | Copolymer                        |                   |                       |
|                                                         | Detergent Resistant              |                   |                       |
|                                                         | Good UV Resistance               |                   |                       |
|                                                         | Heat Stabilized                  |                   |                       |
|                                                         | Laser Markable                   |                   |                       |
| Appearance                                              | Colors Available                 |                   |                       |
| Forms                                                   | Pellets                          |                   |                       |
| Processing Method                                       | Injection Molding                |                   |                       |
| Physical                                                | Nominal Value                    | Unit              | Test Method           |
| Specific Gravity                                        | 1.13                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)               | 10                               | g/10 min          | ASTM D1238, ISO 1133  |
| Molding Shrinkage                                       |                                  |                   | ASTM D955             |
| Flow                                                    | 0.20 to 0.40                     | %                 |                       |
| Across Flow                                             | 0.70 to 0.90                     | %                 |                       |
| Water Absorption (23°C, 24 hr)                          | 0.10                             | %                 | ASTM D570, ISO 62     |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method           |
| Tensile Strength (Break)                                | 75.0                             | MPa               | ASTM D638, ISO 527-2  |
| Tensile Elongation (Break)                              | 5.0                              | %                 | ASTM D638, ISO 527-2  |
| Flexural Modulus                                        | 4700                             | MPa               | ASTM D790, ISO 178    |
| Impact                                                  | Nominal Value                    | Unit              | Test Method           |
| Notched Izod Impact                                     | 150                              | J/m               | ISO 180, ASTM D256    |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method           |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 125                              | °C                | ASTM D648, ISO 75-2/A |
| Vicat Softening Temperature                             |                                  |                   |                       |

| --                     | 150              | °C   | ASTM D1525, ISO 306/A 2<br>1 |
|------------------------|------------------|------|------------------------------|
| --                     | 110              | °C   | ASTM D1525, ISO 306/B 3 2    |
| Flammability           | Nominal Value    | Unit | Test Method                  |
| Flame Rating (1.60 mm) | HB               |      | UL 94                        |
| Oxygen Index           | 20               | %    | ASTM D2863                   |
| Injection              | Nominal Value    | Unit |                              |
| Drying Temperature     | 70.0 to 80.0     | °C   |                              |
| Drying Time            | 3.0              | hr   |                              |
| Processing (Melt) Temp | 210 to 240       | °C   |                              |
| Mold Temperature       | 40.0 to 60.0     | °C   |                              |
| Injection Rate         | Moderate         |      |                              |
| NOTE                   |                  |      |                              |
| 1.                     | Loading 1 (10 N) |      |                              |
| 2.                     | Loading 2 (50 N) |      |                              |

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