

# TEKAFIN™ PB50FR

Polypropylene

Mando Advanced Materials Co., Ltd.

## Message:

PB50FR is a unreinforced flame retardant PP.

| General Information                                      |                 |                   |             |
|----------------------------------------------------------|-----------------|-------------------|-------------|
| Additive                                                 | Flame Retardant |                   |             |
| Features                                                 | Flame Retardant |                   |             |
| Physical                                                 | Nominal Value   | Unit              | Test Method |
| Specific Gravity                                         | 1.01            | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                 | 1.4 to 1.6      | %                 | ASTM D955   |
| Mechanical                                               | Nominal Value   | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Break)                    | 28.4            | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                  | 50              | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>                            | 1770            | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup>                           | 42.2            | MPa               | ASTM D790   |
| Impact                                                   | Nominal Value   | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                      | 61              | J/m               | ASTM D256   |
| Thermal                                                  | Nominal Value   | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 130             | °C                | ASTM D648   |
| Flammability                                             | Nominal Value   | Test Method       |             |
| Flame Rating                                             | V-0             | UL 94             |             |
| Injection                                                | Nominal Value   | Unit              |             |
| Drying Temperature                                       | 70.0 to 80.0    | °C                |             |
| Drying Time                                              | 3.0 to 4.0      | hr                |             |
| Rear Temperature                                         | 190 to 210      | °C                |             |
| Middle Temperature                                       | 200 to 230      | °C                |             |
| Front Temperature                                        | 200 to 230      | °C                |             |
| Nozzle Temperature                                       | 210 to 230      | °C                |             |
| Processing (Melt) Temp                                   | 210 to 230      | °C                |             |
| Mold Temperature                                         | 40.0 to 60.0    | °C                |             |
| NOTE                                                     |                 |                   |             |
| 1.                                                       | 50 mm/min       |                   |             |
| 2.                                                       | 50 mm/min       |                   |             |
| 3.                                                       | 3.0 mm/min      |                   |             |
| 4.                                                       | 3.0 mm/min      |                   |             |

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