

# TAIRIPRO K8003

Polypropylene Impact Copolymer

Formosa Plastics Corporation

Message:

FCFC PP resin K8003 meets the requirements of UL, FDA, RoHS and the certificates of environmental protection.

| General Information                                               |                      |          |                 |
|-------------------------------------------------------------------|----------------------|----------|-----------------|
| UL YellowCard                                                     | E162823-224740       |          |                 |
| Features                                                          | Impact copolymer     |          |                 |
| Agency Ratings                                                    | EC 1907/2006 (REACH) |          |                 |
|                                                                   | FDA 21 CFR 177.1520  |          |                 |
| RoHS Compliance                                                   | RoHS compliance      |          |                 |
| UL File Number                                                    | E162823              |          |                 |
| Forms                                                             | Particle             |          |                 |
| Processing Method                                                 | Injection molding    |          |                 |
| Physical                                                          | Nominal Value        | Unit     | Test Method     |
| Specific Gravity                                                  | 0.900                | g/cm³    | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                         | 3.0                  | g/10 min | ASTM D1238      |
| Molding Shrinkage - Flow (23°C)                                   | 1.4 - 1.8            | %        | Internal method |
| Hardness                                                          | Nominal Value        | Unit     | Test Method     |
| Rockwell Hardness (R-Scale, 23°C)                                 | 80                   |          | ASTM D785       |
| Mechanical                                                        | Nominal Value        | Unit     | Test Method     |
| Tensile Strength (Yield, 23°C)                                    | 25.5                 | MPa      | ASTM D638       |
| Tensile Elongation (Break, 23°C)                                  | > 200                | %        | ASTM D638       |
| Flexural Modulus (23°C)                                           | 1080                 | MPa      | ASTM D790A      |
| Impact                                                            | Nominal Value        | Unit     | Test Method     |
| Unnotched Izod Impact                                             |                      |          | ASTM D256       |
| -20°C, 3.18 mm                                                    | 93                   | J/m      | ASTM D256       |
| 23°C, 3.18 mm                                                     | No Break             |          | ASTM D256       |
| Thermal                                                           | Nominal Value        | Unit     | Test Method     |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.35 mm) | 110                  | °C       | ASTM D648       |
| Flammability                                                      | Nominal Value        |          | Test Method     |
| Flame Rating (1.50 mm, All Colors)                                | HB                   |          | UL 94           |
| Injection                                                         | Nominal Value        | Unit     |                 |
| Mold Temperature                                                  | 30.0 - 50.0          | °C       |                 |
| Injection Pressure                                                | 2.94 - 5.88          | MPa      |                 |
| Injection instructions                                            |                      |          |                 |

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