

# COSMOPLENE® FY4012E

Polypropylene Homopolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

## Message:

COSMOPLENE FY4012E is Polypropylene Homopolymer designed for stiffness, tensile strength and excellent processibility.  
COSMOPLENE FY4012E is formulated for yarn, tapes, bands, monofilaments etc.

| General Information        |                             |                   |                 |
|----------------------------|-----------------------------|-------------------|-----------------|
| Features                   | Good Processability         |                   |                 |
|                            | Good Stiffness              |                   |                 |
|                            | Good Strength               |                   |                 |
|                            | Homopolymer                 |                   |                 |
| Uses                       | Monofilaments               |                   |                 |
|                            | Tape                        |                   |                 |
|                            | Yarn                        |                   |                 |
| Agency Ratings             | FDA 21 CFR 177.1520(c) 1.1a |                   |                 |
| Forms                      | Pellets                     |                   |                 |
| Processing Method          | Extrusion                   |                   |                 |
| Physical                   | Nominal Value               | Unit              | Test Method     |
| Specific Gravity           | 0.900                       | g/cm <sup>3</sup> | ASTM D792       |
| Melt Mass-Flow Rate (MFR)  | 4.0                         | g/10 min          | ASTM D1238      |
| Mechanical                 | Nominal Value               | Unit              | Test Method     |
| Tensile Strength (Break)   | 42.2                        | MPa               | ASTM D638       |
| Tensile Elongation (Break) | 830                         | %                 | ASTM D638       |
| Apparent Bending Modulus   | 1370                        | MPa               | ASTM D747       |
| Thermal                    | Nominal Value               | Unit              | Test Method     |
| Melting Temperature        | 164                         | °C                | Internal Method |

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