

# Retpol® 6017

Polypropylene Copolymer

PolyPacific Pty. Ltd.

## Message:

Polycomp 6017 is an unfilled low flow polypropylene copolymer compound. It has been developed for mouldings requiring long term exposure to water at elevated temperatures and pressures.

| General Information                                               |                   |                   |             |
|-------------------------------------------------------------------|-------------------|-------------------|-------------|
| Features                                                          | Copolymer         |                   |             |
|                                                                   | Low Flow          |                   |             |
| Uses                                                              | Fittings          |                   |             |
| Forms                                                             | Granules          |                   |             |
| Processing Method                                                 | Injection Molding |                   |             |
| Physical                                                          | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                                  | 0.898             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                         | 2.3               | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.00 mm)                                | 1.6 to 1.9        | %                 | ASTM D955   |
| Hardness                                                          | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale, 3.00 mm)                              | 82                |                   | ASTM D785   |
| Durometer Hardness                                                |                   |                   | ASTM D2240  |
| Shore D, 3.00 mm                                                  | 72                |                   |             |
| Shore D, 15 sec, 3.00 mm                                          | 63                |                   |             |
| Mechanical                                                        | Nominal Value     | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (3.00 mm)                           | 29.0              | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.00 mm)                  | 300               | %                 | ASTM D638   |
| Flexural Modulus (3.00 mm)                                        | 1030              | MPa               | ASTM D790   |
| Impact                                                            | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (3.00 mm)                                     | 55                | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.00 mm)                                   | No Break          |                   | ASTM D256   |
| Thermal                                                           | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.00 mm) | 85.0              | °C                | ASTM D648   |
| CLTE - Flow (-30 to 30°C, 3.00 mm)                                | 1.0E-4            | cm/cm/°C          | ASTM D696   |
| Injection                                                         | Nominal Value     | Unit              |             |
| Suggested Max Regrind                                             | 10                | %                 |             |
| Processing (Melt) Temp                                            | 200 to 260        | °C                |             |
| Mold Temperature                                                  | 20.0 to 60.0      | °C                |             |
| Injection Rate                                                    | Moderate-Fast     |                   |             |
| NOTE                                                              |                   |                   |             |

|    |           |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |

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