

# DURACON® EX-09

Acetal (POM) Copolymer

Polyplastics Co., Ltd.

## Message:

DURACON®EX-09 is a polyoxymethylene (POM) copolymer product. It can be processed by extrusion and is available in North America, Europe or Asia Pacific. Typical application areas are: water pipes/pipes/drinking water. The main characteristics are: flame retardant/rated flame.

| General Information                       |                  |                   |             |
|-------------------------------------------|------------------|-------------------|-------------|
| UL YellowCard                             | E45034-101916317 |                   |             |
| Agency Ratings                            | NSF 61           |                   |             |
| UL File Number                            | E45034           |                   |             |
| Forms                                     | Particle         |                   |             |
| Processing Method                         | Extrusion        |                   |             |
| Part Marking Code (ISO 11469)             | >POM             |                   |             |
| Physical                                  | Nominal Value    | Unit              | Test Method |
| Density                                   | 1.41             | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.5              | g/10 min          | ISO 1133    |
| Mechanical                                | Nominal Value    | Unit              | Test Method |
| Tensile Stress                            | 60.0             | MPa               | ISO 527-2   |
| Nominal Tensile Strain at Break           | 37               | %                 | ISO 527-2   |
| Flexural Modulus                          | 2200             | MPa               | ISO 178     |
| Flexural Stress                           | 78.0             | MPa               | ISO 178     |
| Impact                                    | Nominal Value    | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)     | 10               | kJ/m <sup>2</sup> | ISO 179/1eA |
| Flammability                              | Nominal Value    |                   | Test Method |
| Flame Rating                              | HB               |                   | UL 94       |
| Additional Information                    | Nominal Value    |                   |             |
| Color Number                              | WK2001           |                   |             |
| Injection Velocity                        | 5 - 50           | mm/sec            |             |
| Injection                                 | Nominal Value    | Unit              |             |
| Drying Temperature                        | 80 - 90          | °C                |             |
| Drying Time                               | 3.0 - 4.0        | hr                |             |
| Processing (Melt) Temp                    | 190 - 210        | °C                |             |
| Mold Temperature                          | 60 - 80          | °C                |             |
| Injection Pressure                        | 50.0 - 100       | MPa               |             |
| Screw Speed                               | 100 - 150        | rpm               |             |

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