



## The Polyolefin Company (Singapore) Pte

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Co. Reg. No.:

# COSMOPLENE<sup>®</sup> AZ864

## CHARACTERISTICS

**COSMOPLENE AZ864** is high impact PP Block Copolymer manufactured by the latest production technology licensed from Sumitomo Chemical Co. Japan.

**COSMOPLENE AZ864** is high flow, high impact, high stiffness Copolymer grade which contains anti-static agent and UV stabilizers.

## APPLICATIONS

**COSMOPLENE AZ864** is specially designed for washing machine parts and automotive parts.

## PHYSICAL PROPERTIES

| ITEM                      | UNIT              | AZ864            | TEST METHOD |
|---------------------------|-------------------|------------------|-------------|
| Melt Flow Rate            | g/10 min          | 38               | ASTM D1238  |
| Density                   | g/cm <sup>3</sup> | 0.90             | ASTM D792   |
| Tensile Strength at Yield | MPa               | 25.0             | ASTM D638   |
| Tensile Strength at Break | MPa               | 17.0             | ASTM D638   |
| Elongation at Break       | %                 | 80               | ASTM D638   |
| Flexural Modulus          | MPa               | 1200             | ASTM D790   |
| Izod Impact (23°C)        | J/m               | 80               | ASTM D256   |
| (-20°C)                   | J/m               | 42               | ASTM D256   |
| Rockwell Hardness         | R scale           | 90               | ASTM D785   |
| HDT (0.45MPa)             | °C                | 122              | ASTM D648   |
| Shrinkage MD/TD (2mm)     | %                 | 1.5/1.4          | TPC METHOD  |
| Weatherability            | Hr.               | 1000             | SWOM        |
| Antistatic                | OHM               | 10 <sup>13</sup> | TPC METHOD  |
| Flammability              | -                 | HB               | UL 94       |

## INJECTION

|                                            |   |           |
|--------------------------------------------|---|-----------|
| Cylinder Temp (°C)                         | : | 190 - 230 |
| Mold Temp (°C)                             | : | 30        |
| Clamp Pressure (Kg/cm <sup>2</sup> )       | : | 100       |
| Injection Pressure G (Kg/cm <sup>2</sup> ) | : | 70        |

- The figures presented are typical laboratory averages, only for reference.
- The information is based on our current knowledge, is subjected to continuous updates and is intended to suggest/ recommend product applications and to provide typical data on the related properties. It should not therefore be construed as guaranteeing any specific property of the product. TPC makes no warranty of any kind, expressed or implied, for the use of the product.