

COSMOPLENE® AX764

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOPLENE AX764 is high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AX764 is high flow, high stiffness, high impact copolymer grade which contains anti-static agent.

COSMOPLENE AX764 is specially designed for tub of washing machine and electrical appliances which require super high flow and high impact strength.

| General Information | | | |
|-----------------------------|------------------------------------|-------------------|-----------------|
| Additive | Antistatic | | |
| Features | Antistatic | | |
| | High Flow | | |
| | High Impact Resistance | | |
| | High Stiffness | | |
| | Impact Copolymer | | |
| Uses | Appliance Components | | |
| | Electrical/Electronic Applications | | |
| | Thin-walled Containers | | |
| | Toys | | |
| UL File Number | E108370 | | |
| Forms | Pellets | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.900 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | 50 | g/10 min | ASTM D1238 |
| Molding Shrinkage | | | Internal Method |
| Flow : 2.00 mm | 1.6 | % | |
| Across Flow : 2.00 mm | 1.7 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 90 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 27.5 | MPa | |
| Break | 17.5 | MPa | |
| Tensile Elongation (Break) | 50 | % | ASTM D638 |
| Flexural Modulus | 1350 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -20°C | 37 | J/m | |
| 23°C | 60 | J/m | |

| Thermal | Nominal Value | Unit | Test Method |
|--|---------------|--------------------|-------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 122 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 190 to 230 | °C | |
| Middle Temperature | 190 to 230 | °C | |
| Front Temperature | 190 to 230 | °C | |
| Mold Temperature | 30.0 | °C | |
| Injection Pressure | 6.86 | MPa | |
| Clamp Tonnage | 0.98 | kN/cm ² | |

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