

# RAMOFIN PPH501G4

Polypropylene Homopolymer

Polyram Ram-On Industries

Message:

Glass Fiber 20% Reinforced, Halogen Free, Flame Retardant Polypropylene for Injection Moulding applications.

| General Information                                     |                                  |                   |                         |
|---------------------------------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Glass Fiber,20% Filler by Weight |                   |                         |
| Additive                                                | Flame Retardant                  |                   |                         |
| Features                                                | Flame Retardant                  |                   |                         |
|                                                         | Halogen Free                     |                   |                         |
|                                                         | Homopolymer                      |                   |                         |
| RoHS Compliance                                         | RoHS Compliant                   |                   |                         |
| Processing Method                                       | Injection Molding                |                   |                         |
| Physical                                                | Nominal Value                    | Unit              | Test Method             |
| Specific Gravity                                        | 1.40                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)               | 3.0                              | g/10 min          | ASTM D1238, ISO 1133    |
| Molding Shrinkage                                       |                                  |                   |                         |
| Flow                                                    | 0.20 to 0.40                     | %                 | ASTM D955               |
| --                                                      | 0.20 to 0.40                     | %                 | ISO 2577                |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method             |
| Tensile Modulus                                         | 4280                             | MPa               | ASTM D638, ISO 527-2    |
| Tensile Strength (Yield)                                | 65.0                             | MPa               | ASTM D638, ISO 527-2    |
| Tensile Elongation                                      |                                  |                   |                         |
| Break                                                   | 3.0                              | %                 | ASTM D638               |
| Break                                                   | 6.0                              | %                 | ISO 527-2               |
| Flexural Modulus                                        | 3500                             | MPa               | ASTM D790, ISO 178      |
| Flexural Strength                                       | 100                              | MPa               | ASTM D790, ISO 178      |
| Impact                                                  | Nominal Value                    | Unit              | Test Method             |
| Notched Izod Impact                                     |                                  |                   |                         |
| 23°C                                                    | 85                               | J/m               | ASTM D256               |
| 23°C                                                    | 8.0                              | kJ/m <sup>2</sup> | ISO 180                 |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 140                              | °C                | ASTM D648, ISO 75-2/A   |
| Melting Temperature                                     | 167                              | °C                | ISO 11357-3, ASTM D3417 |
| Flammability                                            | Nominal Value                    | Unit              | Test Method             |
| Flame Rating (3.00 mm)                                  | V-0                              |                   | UL 94                   |
| Glow Wire Ignition Temperature                          | 850                              | °C                | IEC 60695-2-13          |

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