

# SPESIN® KP212G30VFBL

Polybutylene Terephthalate

Kolon Plastics, Inc.

Message:

SPESIN® KP212G30VFBL is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Halogen Free

| General Information                          |                                  |          |             |
|----------------------------------------------|----------------------------------|----------|-------------|
| Filler / Reinforcement                       | Glass Fiber,30% Filler by Weight |          |             |
| Additive                                     | Flame Retardant                  |          |             |
| Features                                     | Flame Retardant                  |          |             |
|                                              | Halogen Free                     |          |             |
| Appearance                                   | Black                            |          |             |
| Physical                                     | Nominal Value                    | Unit     | Test Method |
| Specific Gravity                             | 1.57                             | g/cm³    | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)    | 8.5                              | g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow                     | 0.20 to 0.90                     | %        | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 0.080                            | %        | ASTM D570   |
| Mechanical                                   | Nominal Value                    | Unit     | Test Method |
| Tensile Strength (23°C)                      | 98.1                             | MPa      | ASTM D638   |
| Tensile Elongation (Break, 23°C)             | 5.0                              | %        | ASTM D638   |
| Flexural Modulus (23°C)                      | 8040                             | MPa      | ASTM D790   |
| Flexural Strength (23°C)                     | 167                              | MPa      | ASTM D790   |
| Impact                                       | Nominal Value                    | Unit     | Test Method |
| Notched Izod Impact (23°C)                   | 64                               | J/m      | ASTM D256   |
| Thermal                                      | Nominal Value                    | Unit     | Test Method |
| Deflection Temperature Under Load            |                                  |          | ASTM D648A  |
| 0.45 MPa, Unannealed                         | 220                              | °C       |             |
| 1.8 MPa, Unannealed                          | 210                              | °C       |             |
| Peak Melting Temperature                     | 225                              | °C       | ASTM D3418  |
| Flammability                                 | Nominal Value                    |          | Test Method |
| Flame Rating (0.0313 mm)                     | V-0                              |          | UL 94       |

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