

**PRODUCT INFORMATION**

Special Grade

**SPESIN<sup>®</sup> KP513MT25**

PBT Compound resin,  
High flow, dimensionally stable

| Property                                   | Test Method | Units                      | Value       |
|--------------------------------------------|-------------|----------------------------|-------------|
| <b>Physical</b>                            |             |                            |             |
| Specific Gravity                           | ASTM D792   | -                          | 1.56        |
| Shrinkage                                  | ASTM D955   | %                          | 1.7         |
| Water Absorption 23℃, Equilibrium 60%RH    | ASTM D570   | %                          | 0.04        |
| <b>Thermal</b>                             |             |                            |             |
| Melting Point                              | ASTM D3418  | ℃                          | 224         |
| Heat Deflection Temperature under Load     | ASTM D648   |                            |             |
| HDT/A 0.45 MPa ( 4.6 kg/cm <sup>2</sup> )  |             | ℃                          | 205         |
| HDT/A 1.82 MPa ( 18.6 kg/cm <sup>2</sup> ) |             | ℃                          | 130         |
| Coeff. Of Linear Thermal Expansion         | ASTM D696   | × 10 <sup>-4</sup> cm/cm·℃ | 0.8         |
| Flammability                               | UL 94       |                            | HB          |
| <b>Mechanical</b>                          |             |                            |             |
| Tensile Strength 23℃                       | ASTM D638   | MPa (kg/cm <sup>2</sup> )  | 59(600)     |
| Tensile Elongation 23℃                     | ASTM D638   | %                          | 3           |
| Flexural Strength 23℃                      | ASTM D790   | MPa (kg/cm <sup>2</sup> )  | 98(1000)    |
| Flexural Modulus 23℃                       | ASTM D790   | MPa (kg/cm <sup>2</sup> )  | 3825(39000) |
| Notched Izod Impact Strength 23℃           | ASTM D256   | J/m (kg cm/cm)             | 35(3.6)     |
| Rockwell Hardness R scale                  | ASTM D785   | g/cc                       | 120         |
| <b>Electrical</b>                          |             |                            |             |
| Arc Resistance                             | ASTM D495   | sec                        | 110         |
| Dielectric Constant                        | ASTM D150   | 10 <sup>6</sup> Hz         | 3.7         |
| Dielectric Strength                        | ASTM D149   | KV/mm                      | 27          |

**KOLON PLASTICS, Inc.**