KOLON PLASTICS, INC.

# PRODUCT INFORMATION

General Grade

# SPESIN® KP270

PBT resin, Excellent extrudability

| Property | | Test Method | Units | Value |
|---|---|---|---|---|
| **Physical** | | | | |
| Specific Gravity | | ASTM D792 | - | 1.31 |
| Shrinkage | | ASTM D955 | % | 1.8 |
| Water Absorption | 23℃, Equilibrium 60%RH | ASTM D570 | % | 0.07 |
| **Thermal** | | | | |
| IV (OCP Method) | | OCP Method | dl/g | 2.0 |
| Melt Index (250℃×2.16kg) | | ASTM D1238 | g/10min | 8 |
| Melting Point | | ASTM D3418 | ℃ | 224 |
| Heat Deflection Temperature under Load | | ASTM D648 | | |
| HDT/A | 0.45 MPa ( 4.6 kg/cm$^2$ ) | | ℃ | 155 |
| HDT/A | 1.82 MPa ( 18.6 kg/cm$^2$ ) | | ℃ | 70 |
| Coeff. Of Linear Thermal Expansion | | ASTM D696 | × 10$^{-4}$cm/cm·℃ | 0.8 |
| Flammability | | UL 94 | | HB |
| **Mechanical** | | | | |
| Tensile Strength | 23℃ | ASTM D638 | MPa (kg/cm$^2$) | 54(552) |
| Tensile Elongation | 23℃ | ASTM D638 | % | >100 |
| Flexural Strength | 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 94(960) |
| Flexural Modulus | 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 2501(25500) |
| Notched Izod Impact Strength | 23℃ | ASTM D256 | J/m (kg·cm/cm) | 49(5) |
| Rockwell Hardness | R scale | ASTM D785 | g/cc | 118 |
| **Electrical** | | | | |
| Arc Resistance | | ASTM D495 | sec | 120 |
| Dielectric Constant | | ASTM D150 | 10$^6$Hz | 3.1 |
| Dielectric Strength | | ASTM D149 | KV/mm | 28 |

The information provided in this data sheet is based on our present state of knowledge and is estimated by KOLON PLASTICS, Inc. This information should not be used as guaranteeing specification limits. KOLON PLASTICS, Inc. make no warranty and liability in connection with any use of this information.

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