

MATWERKZ

PROVISIONAL TECHNICAL DATA SHEET

8515-4P5-ZZE

BLACK

Thermally Conductive and Electrically Conductive Polyphenylene Sulfide (PPS) Compound

| Properties | Test Method | Test Condition | Units | Typical value |
|-----------------------------|-----------------|-----------------|-------|---------------|
| PHYSICAL | | | | |
| Specific Gravity | ASTM D792 | Method A | | 1.69 |
| Molding Shrinkage | Internal Method | | % | 0.2 - 0.6 |
| MECHANICAL | | | | |
| Izod Impact Strength | ASTM D256 | Notched, 23°C | J/m | 22 |
| Tensile Strength | ASTM D638 | 5mm/min, 23°C | MPa | 61 |
| Tensile Strain at Break | ASTM D638 | 5mm/min, 23°C | % | 0.80 |
| Flexural Strength | ASTM D790 | 1.3mm/min, 23°C | MPa | 93 |
| Flexural Modulus | ASTM D790 | 1.3mm/min, 23°C | MPa | 19400 |
| THERMAL | | | | |
| Heat Deflection Temperature | ASTM D648 | 1.8MPa | °C | 239 |
| Thermal Conductivity | Internal Method | Through-plane | W/m/K | 2.3 |
| | | In-plane | W/m/K | 12 |
| ELECTRICAL | | | | |
| Surface Resistivity | ASTM D257 | | ohms | E4-E6 |
| FLAMMABILITY | | | | |
| Flame Rating | Internal Method | 1.6 mm | | V-0 |

| PROCESSING PARAMETERS | UNIT | TYPICAL VALUE |
|--------------------------|------|---------------|
| Injection Molding | | |
| Drying Temperature | °C | 140 - 150 |
| Drying Time | hr | 4-6 |
| Processing Temperature | °C | 320 - 350 |
| Mold temperature | °C | 120 - 160 |

Remark: Data shown above are for reference only and it shall not be used for any specification purpose. Users are always advised to test the product under their own application environment to confirm suitability before use.



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