

VESTOSINT® 1141 colored
Polyamide 12 fluidized bed coating powder

VESTOSINT 1141 colored is a standard fluidized bed coating powder based on polyamide 12. It is especially suitable for the coating of wire goods.

For more information we recommend our brochure "VESTOSINT – Polyamide 12 Coating Powder".

For further information please contact our experts of the department Marketing Development of the High Performance Polymers Business Unit.

Powder Information

| Property | Test method | | Unit | VESTOSINT 1141 colored |
|----------------------------|---------------|---------------|-------------------|---------------------------|
| | international | national | | |
| App. bulk density | ISO 60 | DIN EN ISO 60 | g/dm ³ | ≥ 480 |
| Particle size distribution | < 32 µm | | | = 2 ¹⁾ |
| | < 100 µm | ISO 4610 | DIN EN ISO 4610 | ≥ 45 |
| | < 250 µm | | | 100 |

¹⁾ Effectpigments may increase the value.

Density, water absorption, thermal, mechanical and electrical properties

| Property | Test method | | Unit | VESTOSINT 1141 colored |
|------------------------------|---------------|------------------------|------------------------------------|---------------------------|
| | international | national | | |
| Melting point | ISO 3146 | | °C | 176 |
| Density | 23 °C | ISO 1183 | g/cm ³ | 1.06 |
| Shore hardness D | ISO 868 | | | 75 |
| Ball indentation hardness | H30 | ISO 2039-1 | N/mm ² | 101 |
| Tensile test | ISO 527-1 | | | |
| Stress at yield | ISO 527-2 | | MPa | 42 |
| Strain at yield | | | % | 6 |
| Strain at break | | | % | > 100 |
| Volume resistivity | IEC 60093 | | Ω · m | 10 ¹² |
| Dielectric breakdown voltage | IEC 60243-1 | | | |
| | K20/P50 | | kV/mm | 85 |
| Water absorption | ISO 62 | | | |
| 100 °C, immersion | | | % | 1.65 |
| Moisture absorption | ISO 62 | | | |
| 23 °C, 96 % r. h. | | | % | 1.2 |
| 23 °C, 50 % r. h. | | | % | 0.5 |
| Coef. of linear expansion | ISO 11359 | DIN 53752 | | |
| 23 – 55 °C | | | 10 ⁻⁴ · K ⁻¹ | 1.04 |
| Thermal conductivity | | Referring to DIN 52612 | W/m · K | 0.22 – 0.27 |
| Specific heat | | DIN 53765 | J/g · K | 2.35 |
| Taber abraser | ASTM D 1242 | DIN 53754 | mg/100 turns | 15 |

® = registered trademark

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