Technical data sheet

SUSTAMID® 66

Product characteristics

- · High form stability
- Excellent sliding properties
- High abrasion resistance



Typical fields of application

- Mechanical engineering
- Vehicle construction
- · Electrical industry

| | Test method | Unit | Value |
|---|-------------------------|----------------------------------|----------------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g/cm ³ | 1,15 |
| Water absorption | DIN EN ISO 62 | % | 2,8 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB / V2 |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | 85 |
| Elongation at break | DIN EN ISO 527 | % | 50 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | 3300 |
| Notched impact strength (charpy) | DIN EN ISO 179 | kJ/m ² | ≥3,0 |
| Ball indentation hardness | DIN EN ISO 2039-1 | MPa | 180 |
| Shore hardness | DIN EN ISO 868 | scale D | 83 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 260 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,23 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1,7 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ K ⁻¹ | 80 |
| Service temperature, long term | Average | °C | -30 <mark> 95</mark> |
| Service temperature, short term (max.) | Average | °C | 170 |
| Heat deflection temperature | DIN EN ISO 75, method A | °C | 100 |
| Electrical properties | | | |
| Dielectric constant | IEC 60250 | | 3,8 |
| Dielectric dissipation factor (50Hz) | IEC 60250 | | 0,015 |
| Volume resistivity | IEC 60093 | Ω *cm | 10 ¹⁵ |
| Surface resistivity | IEC 60093 | Ω | 10 ¹³ |
| Comparative tracking index | IEC 60112 | | 600 |
| Dielectric strength | IEC 60243 | kV/mm | 25 |

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