

alfanyl PA66

Properties: dry



| PROPERTIES | NORMS | | UNITS | TYPICAL VALUES |
|------------|-------|--|-------|----------------|
|------------|-------|--|-------|----------------|

1. PHYSICAL

| | | | | |
|------------------------------------|------------|-----------|--------------------|-------------|
| Specific weight | ASTM D792 | ISO 1183 | Gr/cm ³ | 1,13 |
| Water absorption 24h-23°C | ASTM D570 | ISO 62 | % | 8 |
| Mould Shrinkage | ASTM D955 | --- | % | 1 |
| Melt flow index MFI (300°C-1,2Kg.) | ASTM D1238 | ISO 1133 | GR/10 ¹ | ----- |
| Light transmission | ASTM D1003 | --- | % | --- |
| Index of refraction | ASTM D542 | ISO R 489 | --- | --- |

2. MECHANICAL

| | | | | |
|------------------------------|-----------|-----------|-------|-------------|
| Tensile strength at yield | ASTM D638 | ISO R527 | Mpa | 85 |
| Elongation at break | ASTM D638 | ISO R527 | % | 50 |
| Tensile modulus | ASTM D638 | ISO R527 | Mpa | 3100 |
| Flexural strength | ASTM D790 | ISO178 | Mpa | 120 |
| Flexural modulus | ASTM D790 | ISO 178 | Mpa | 2800 |
| Notched IZOD impact strength | ASTM D256 | ISO180/4a | ----- | ----- |
| Thickness 3,2 mm 23°C | | | J/m | 50 |
| Thickness 3,2 mm -40°C | | | J/m | ----- |
| Rockwell Hardness scale L | ASTM D785 | ISO2039/2 | --- | 100 |

3. THERMAL

| | | | | |
|-------------------------------------|---------------|-----------|----|------------|
| Softening point VICAT 9,8 N-120°C/h | ASTM D1525/A | ISO 306/A | °C | 250 |
| Softening point VICAT 49 N-120°C/h | ASTM D1525/B | ISO 306/B | °C | 235 |
| Heat distortion. Temp. HDT 1,82 MPa | ASTM D648 | ISO 75 | °C | 95 |
| Ball thermal resistance | BS 3456 | IEC 335 | °C | ----- |
| Limit use time----few hours | VDE 0304/P2-1 | IEC216 | °C | 200 |
| 5.000 | VDE 0304/P2-1 | IEC 216 | °C | 85 |
| 20.000 | VDE 0304/P2-1 | IEC216 | °C | 70 |

4. ELECTRICAL

| | | | | |
|-------------------------------------|-------------|---------|----------|------------------------|
| Surface resistivity | ASTM D257 | IEC 93 | Ohm | 10¹³ |
| Dielectric strength | ASTM D149 | IEC 243 | KV/mm | 110 |
| Dielectric constant 1000 Hz | ASTM D150 | IEC 250 | ---- | 3,5 |
| Dissipation factor integr.-1000 Hz. | ASTM D150 | IEC 250 | ---- | 0,02 |
| Resistance to tracking(sol. A) | VDE 0303-P1 | IEC 112 | CTI val. | 600 |

5. FIRE REACTION

| | | | | |
|---------------------------|---------------|---------|-------|-----------|
| Thickness 1,6mm | UL 94 | ----- | CLASS | HB |
| Thickness 3,2mm | UL 94 | ----- | CLASS | HB |
| Glow-Wire Thickness 3.2mm | VDE 0471/P2-4 | IEC 695 | °C | ----- |
| Glow-wire Thickness 2mm | VDE 0471/P2-4 | IEC 695 | °C | ----- |

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The values given are only indicative for customer's uses and do not dispense client to effect his own controls.
Product application, use and processing made out our control are only on customer's responsibility.