

Durethan® B30SF30 DUS064

PA6 FR(17)

Injection Molding, Unreinforced, Flame Retardant, Heat Stabilized

Print Date: 2025-07-10

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|-------------------------------------------|--------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | DRY / COND | |
| Molding shrinkage (parallel) | 1.1 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 1.1 / * | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | DRY / COND | |
| Tensile modulus | 3600 / – | MPa | ISO 527-1/-2 |
| Nominal strain at break | 9 / – | % | ISO 527-1/-2 |
| Yield stress | 70 / – | MPa | ISO 527-1/-2 |
| Yield strain | 3.7 / – | % | ISO 527-1/-2 |
| Flexural modulus | 3200 / – | MPa | ISO 178 |
| Flexural strength | 110 / – | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 150 / – | kJ/m² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 130 / – | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | <10 / – | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | <10 / – | kJ/m² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | <10 / – | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES | | DRY / COND | |
| Melting temperature (10°C/min) | 222 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 70 / * | °C | ISO 75-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | IEC 60695-11-10 |
| Burning Behav. at 3.0 mm nom. thickn. | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 3 / * | mm | IEC 60695-11-10 |

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|----------------------------------------|--------------|------------|----------------------|
| Burning Behav. at 0.4 mm nom. thickn. | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.4 / * | mm | IEC 60695-11-10 |
| Burning Behav. at 0.75 mm nom. thickn. | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.75 / * | mm | IEC 60695-11-10 |
| Glow Wire Flammability Index GWFI | 960 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (1) tested) | 0.75 / - | mm | IEC 60695-2-12 |
| Glow Wire Flammability Index GWFI | 960 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (2) tested) | 1.5 / - | mm | IEC 60695-2-12 |
| Glow Wire Ignition Temperature GWIT | 960 / - | °C | IEC 60695-2-13 |
| GWIT (Thickness (1) tested) | 0.4 / - | mm | IEC 60695-2-13 |
| Glow Wire Ignition Temperature GWIT | 900 / - | °C | IEC 60695-2-13 |
| GWIT (Thickness (2) tested) | 0.75 / - | mm | IEC 60695-2-13 |
| ELECTRICAL PROPERTIES | | DRY / COND | |
| Comparative tracking index | 275 / - | V | IEC 60112 |
| OTHER PROPERTIES | | DRY / COND | |
| Density | 1350 / - | kg/m³ | ISO 1183 |
| PROCESSING RECOMMENDATIONS | | VALUE | |
| Drying temperature dry air dryer | 80 | °C | |
| Drying time dry air dryer | 2-6 | h | |
| Residual moisture content | 0.03-0.12 | % | acc. to Karl Fischer |
| Melt temperature (Tmin - Tmax) | 250-270 | °C | |
| Mold temperature | 80-100 | °C | |
| admissible residence time at Tmax | <5 | min | |

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