

Durethan® BKV30FN22

PA6—GF30 FR(40+30)

30% Glass Reinforced, Injection Molding, Flame Retardant (halogen free), Heat Stabilized

Print Date: 2024-12-10

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|------------|-----------------|
| RHEOLOGICAL PROPERTIES | | DRY / COND | |
| Molding shrinkage (parallel) | 0.6 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.7 / * | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | DRY / COND | |
| Tensile modulus | 7600 / 3400 | MPa | ISO 527-1/-2 |
| Stress at break | 95 / 50 | MPa | ISO 527-1/-2 |
| Strain at break | 4 / 28 | % | ISO 527-1/-2 |
| Flexural modulus | 7300 / 3200 | MPa | ISO 178 |
| Flexural strength | 170 / 75 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 50 / 85 | 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 (-40°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) | 180 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 210 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.3 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.9 / * | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | IEC 60695-11-10 |
| Burning Behav. at 3.0 mm nom. thickn. | V-2 / * | class | IEC 60695-11-10 |

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|---|--------------|------------|---------------------|
| Thickness tested | 3 / * | mm | IEC 60695-11-10 |
| Burning Behav. at 0.75 mm nom. thicken. | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.75 / * | mm | IEC 60695-11-10 |
| Oxygen index | 30 / * | % | ISO 4589-1/-2 |
| 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 | 725 / - | °C | IEC 60695-2-13 |
| GWIT (Thickness (1) tested) | 0.75 / - | mm | IEC 60695-2-13 |
| Glow Wire Ignition Temperature GWIT | 725 / - | °C | IEC 60695-2-13 |
| GWIT (Thickness (2) tested) | 1.5 / - | mm | IEC 60695-2-13 |
| ELECTRICAL PROPERTIES | | DRY / COND | |
| Volume resistivity | 1E13 / - | Ohm*m | IEC 62631-3-1 |
| Electric strength | 38 / - | kV/mm | IEC 60243-1 |
| Comparative tracking index | 550 / - | V | IEC 60112 |
| OTHER PROPERTIES | | DRY / COND | |
| Water absorption | 5.9 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.8 / * | % | Sim. to ISO 62 |
| Density | 1400 / - | kg/m³ | ISO 1183 |
| MATERIAL SPECIFIC PROPERTIES | | DRY / COND | |
| Viscosity number | 104 / * | cm³/g | ISO 307, 1157, 1628 |
| PROCESSING RECOMMENDATIONS | | VALUE | |
| Drying temperature dry air dryer | 80 | °C | |
| Drying time dry air dryer | 2-6 | h | |

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|--------------------------------|--------------|------|----------------------|
| Residual moisture content | 0.03-0.07 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 250-270 | °C | |
| Mold temperature | 80-100 | °C | |

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