Data sheet



Durethan BKV30H2.0 000000

PA 6, 30 % glass fibers, injection molding, heat-aging stabilized

ISO/ ASTM

ISO Shortname: ISO 16396-PA 6,GF30,GHR,S14-100

| Test Condition | Unit | Standard | guide value d.a.m. cond. | |
|----------------|--|--|--|----------|
| | | | | |
| | | | | |
| 1 mm/min | MPa | ISO 527-12 | 9600 | 5900 |
| 5 mm/min | MPa | <u>'</u> | 170 | 100 |
| 5 mm/min | % | <u> </u> | 3.5 | 6.5 |
| 1000 h | MPa | ISO 899-1 | | 4100 |
| 23 °C | kJ/m² | ISO 179-1eU | 80 | 95 |
| -30 °C | kJ/m² | ISO 179-1eU | 70 | 70 |
| 23 °C | kJ/m² | ISO 179-1eA | 15 | 20 |
| -30 °C | kJ/m² | ISO 179-1eA | 10 | 10 |
| 23 °C | kJ/m² | ISO 180-1U | 75 | 80 |
| -30 °C | kJ/m² | ISO 180-1U | 65 | 65 |
| 23 °C | kJ/m² | ISO 180-1A | 15 | 20 |
| -30 °C | kJ/m² | ISO 180-1A | <10 | <10 |
| 2 mm/min | MPa | ISO 178-A | 8500 | 5100 |
| 2 mm/min | MPa | ISO 178-A | 280 | 170 |
| 2 mm/min | % | ISO 178-A | 4.0 | 6.0 |
| 2 mm/min | MPa | ISO 178-A | 265 | 140 |
| | | | | |
| 13.00/ | | 100 44057 4 0 | | |
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| | | | | |
| 0.75 mm | Class | UL 94 | НВ | |
| >=1.0 mm | | ISO 3795 | passed | |
| 50 N; 50 °C/h | °C | ISO 306 | > 200 | |
| | | | | |
| Water at 23 °C | % | ISO 62 | 7.0 | |
| 23 °C; 50 % RH | % | ISO 62 | 2.1 | |
| | kg/m³ | ISO 1183 | 1360 | |
| | kg/m³ | ISO 60 | 700 | |
| | | | | |
| | ••• | 150 304 | 280 | |
| | | | | |
| | <u> </u> | 150 254 | 00 | |
| | | | | |
| | °C | - | 80 | |
| | h | <u>-</u> | 2-6 | |
| | % | Acc. to Karl Fischer | 0.03-0.12 | |
| | °C | <u>-</u> | 270-290 | |
| | °C | - | 80-120 | |
| | 1 mm/min 5 mm/min 5 mm/min 1000 h 23 °C -30 °C 2 mm/min 2 mm/min 2 mm/min 2 mm/min 1.80 MPa 0.45 MPa 8.00 MPa 50 N; 120 °C/h 23 to 55 °C 23 to 55 °C 1.5 mm 0.75 mm >=1.0 mm 50 N; 50 °C/h | 1 mm/min MPa 5 mm/min MPa 5 mm/min % 1000 h MPa 23 °C kJ/m² -30 °C kJ/m² 23 °C kJ/m² 2 mm/min MPa 10 °C/min °C 1.80 MPa °C 0.45 MPa °C 8.00 MPa °C 50 N; 120 °C/h °C 23 to 55 °C 10-4/K 1.5 mm Class 0.75 mm Class 0.75 mm Class >=1.0 mm 50 N; 50 °C/h °C Water at 23 °C % Water at 23 °C % 23 °C; 50 % RH % % °C °C °C °C | 1 mm/min MPa ISO 527-1,-2 5 mm/min MPa ISO 527-1,-2 5 mm/min % ISO 527-1,-2 5 mm/min % ISO 527-1,-2 5 mm/min % ISO 527-1,-2 1000 h MPa ISO 899-1 23 °C kJ/m² ISO 179-1eU 23 °C kJ/m² ISO 179-1eA -30 °C kJ/m² ISO 179-1eA -30 °C kJ/m² ISO 180-1U -30 °C kJ/m² ISO 180-1U 23 °C kJ/m² ISO 180-1U 23 °C kJ/m² ISO 180-1U 23 °C kJ/m² ISO 180-1A -30 °C kJ/m² ISO 180-1A 2 mm/min MPa ISO 178-A 2 mm/min MPa ISO 178-A 2 mm/min MPa ISO 178-A 10 °C/min °C ISO 178-A 10 °C/min °C ISO 75-1,-2 8.00 MPa °C ISO 75-1,-2 8.00 MPa °C ISO 75-1,-2 1.80 MPa ° | 1 mm/min |

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

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Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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Color and Visual Effects

Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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