

Datasheet Durethan DPBKV60EFW1 000000

PA 6, 60% glass fibers, injection molding, improved flowability, weather stabilized

ISO Shortname: ISO 16396-PA 6,GF60,GHR,S10-190

| Property | Test Condition | Unit | Standard | guide value ¹ d.a.m. cond. | | | | | |
|---|--|---------------------|----------------|--|-------|--|--|--|--|
| Rheological properties | | | | | | | | | |
| C Molding shrinkage, parallel | 60x60x2; 280 °C / MT 80 °C; 600 bar | % | ISO 294-4 | 0.25 | | | | | |
| C Molding shrinkage, transverse | 60x60x2; 280 °C / MT 80 °C; 600 bar | % | ISO 294-4 | 0.35 | | | | | |
| Post- shrinkage, parallel | 60x60x2; 120 °C; 4 h | % | ISO 294-4 | 0.05 | | | | | |
| Post- shrinkage, transverse | 60x60x2; 120 °C; 4 h | % | ISO 294-4 | 0.10 | | | | | |
| Mechanical properties (23 °C/50 % r. h.) | | | | | | | | | |
| C Tensile modulus | 1 mm/min | MPa | ISO 527-1,-2 | 20000 | 12500 | | | | |
| C Tensile Stress at break | 5 mm/min | MPa | ISO 527-1,-2 | 230 | 155 | | | | |
| C Tensile Strain at break | 5 mm/min | % | ISO 527-1,-2 | 2.5 | 3.5 | | | | |
| C Charpy impact strength | 23 °C | kJ/m² | ISO 179-1eU | 95 | | | | | |
| C Charpy impact strength | -30 °C | kJ/m² | ISO 179-1eU | 95 | | | | | |
| C Charpy notched impact strength | 23 °C | kJ/m² | ISO 179-1eA | 17 | | | | | |
| C Charpy notched impact strength | -30 °C | kJ/m² | ISO 179-1eA | 17 | | | | | |
| Izod impact strength | 23 °C | kJ/m² | ISO 180-1U | 90 | 90 | | | | |
| Izod impact strength | -30 °C | kJ/m² | ISO 180-1U | 90 | 90 | | | | |
| Izod notched impact strength | 23 °C | kJ/m² | ISO 180-1A | 18 | | | | | |
| Izod notched impact strength | -30 °C | kJ/m² | ISO 180-1A | 18 | | | | | |
| Flexural modulus | 2 mm/min | MPa | ISO 178-A | 20200 | | | | | |
| Flexural strength | 2 mm/min | MPa | ISO 178-A | 390 | | | | | |
| Flexural strain at flexural strength | 2 mm/min | % | ISO 178-A | 3.0 | | | | | |
| C Puncture maximum force | 23 °C | N | ISO 6603-2 | 1370 | | | | | |
| C Puncture maximum force | -30 °C | N | ISO 6603-2 | 1300 | | | | | |
| C Puncture energy | 23 °C | J | ISO 6603-2 | 4.3 | | | | | |
| C Puncture energy | -30 °C | J | ISO 6603-2 | 3.7 | | | | | |
| Thermal properties | | | | | | | | | |
| C Melting temperature | 10 °C/min | °C | ISO 11357-1,-3 | 221 | | | | | |
| C Temperature of deflection under load | 1.80 MPa | °C | ISO 75-1,-2 | 213 | | | | | |
| C Temperature of deflection under load | 0.45 MPa | °C | ISO 75-1,-2 | 222 | | | | | |
| C Coefficient of linear thermal expansion, parallel | 23 to 55 °C | 10 ⁻⁴ /K | ISO 11359-1,-2 | 0.1 | | | | | |
| C Coefficient of linear thermal expansion, transverse | 23 to 55 °C | 10 ⁻⁴ /K | ISO 11359-1,-2 | 0.8 | | | | | |
| Other properties (23 °C) | | | | | | | | | |
| CDensity | | kg/m³ | ISO 1183 | 1700 | | | | | |



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| Property | Test Condition | Unit | Standard | guide value ¹ |
|--------------------------------------|----------------|------|-------------------------|--------------------------|
| C Injection molding-Melt temperature | | °C | ISO 294 | 280 |
| C Injection molding-Mold temperature | | °C | ISO 294 | 80 |
| Processing recommendations | | | | |
| Drying temperature dry air dryer | | °C | - | 80 |
| Drying time dry air dryer | · | h | - | 2-6 |
| Residual moisture content | | % | Acc. to Karl Fischer | 0.05-0.15 |
| Melt temperature (Tmin - Tmax) | | °C | - | 270-290 |
| Mold temperature | | °C | - | 80-120 |

Notes

1 Typical properties: these are not to be construed as specifications

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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Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

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