

Durethan® ECOBKV40H2.0 901510
PA6-GF40

Envalior

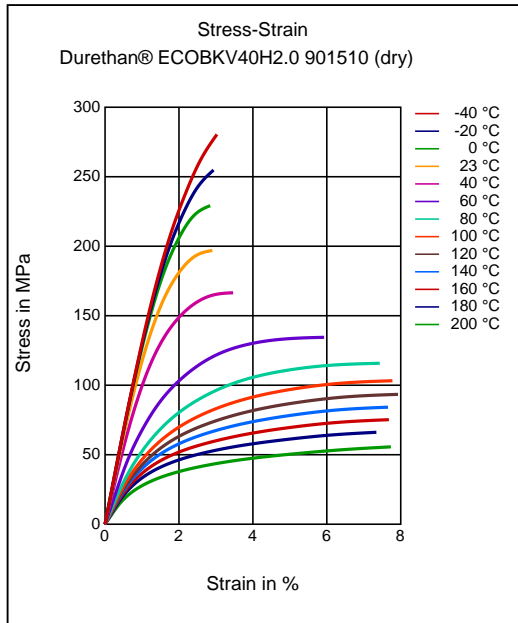
Injection Molding, 40% Glass Reinforced, Heat Stabilized, Recycled Content

ISO 1043 PA6-GF40

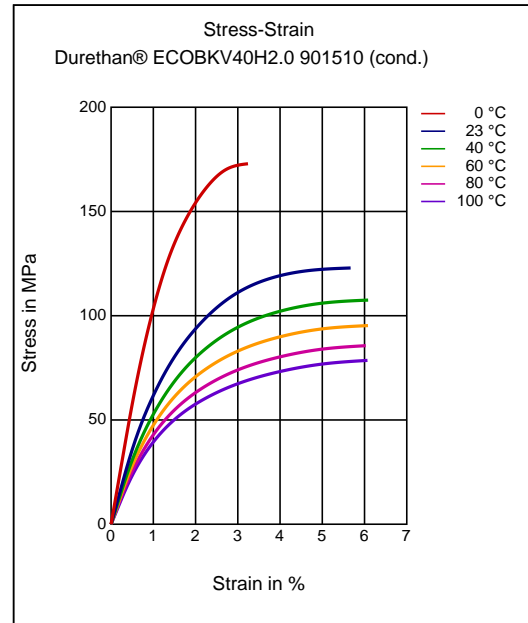
| Mechanical Properties | dry / cond | Unit | Test Standard |
|-------------------------------------------|--------------|--------------------|---------------------|
| ISO Data | | | |
| Tensile Modulus | 12700 / 7800 | MPa | ISO 527 |
| Stress at Break | 195 / 130 | MPa | ISO 527 |
| Strain at Break | 3 / 6 | % | ISO 527 |
| Impact Strength (Charpy), +23°C | 95 / 90 | kJ/m ² | ISO 179/1eU |
| Impact Strength (Charpy), -30°C | 85 / 70 | kJ/m ² | ISO 179/1eU |
| Notched Impact Strength (Charpy), +23°C | 15 / 20 | kJ/m ² | ISO 179/1eA |
| Thermal Properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Melting Temperature (10°C/min) | 222 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 200 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 215 / * | °C | ISO 75-1/-2 |
| Burning Behav. at 1.5 mm Nom. Thickn. | HB / * | class | UL 94 |
| Thickness tested | 1.5 / * | mm | - |
| Electrical Properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Relative permittivity, 100Hz | 4 / 10 | - | IEC 62631-2-1 |
| Relative permittivity, 1MHz | 4 / 5 | - | IEC 62631-2-1 |
| Dissipation Factor, 100Hz | 50 / 2500 | E-4 | IEC 62631-2-1 |
| Dissipation Factor, 1MHz | 150 / 1200 | E-4 | IEC 62631-2-1 |
| Volume Resistivity | 1E13 / 1E9 | Ohm*m | IEC 62631-3-1 |
| Surface Resistivity | * / 1E10 | Ohm | IEC 62631-3-2 |
| Electric Strength | 40 / 35 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 400 / - | - | IEC 60112 |
| Other Properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Water Absorption | 6 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.8 / * | % | Sim. to ISO 62 |
| Density | 1460 / - | kg/m ³ | ISO 1183 |
| Material Specific Properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Viscosity number | 140 / * | cm ³ /g | ISO 307, 1157, 1628 |
| Test specimen production | Value | Unit | Test Standard |
| ISO Data | | | |
| Injection Molding, melt temperature | 280 | °C | ISO 294 |
| Injection Molding, mold temperature | 80 | °C | ISO 294 |

Diagrams

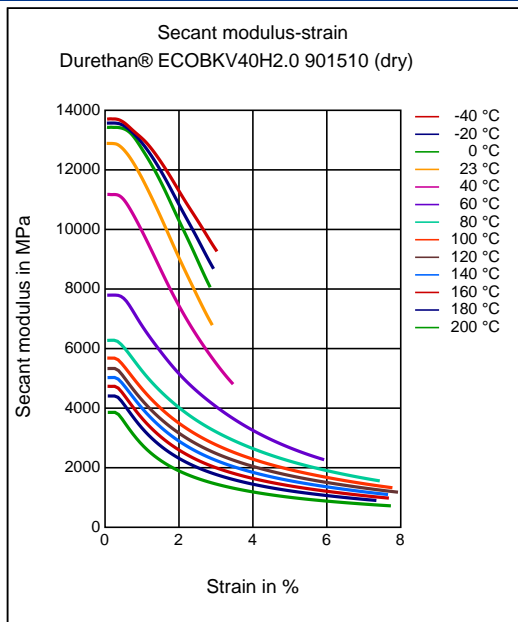
Stress-strain



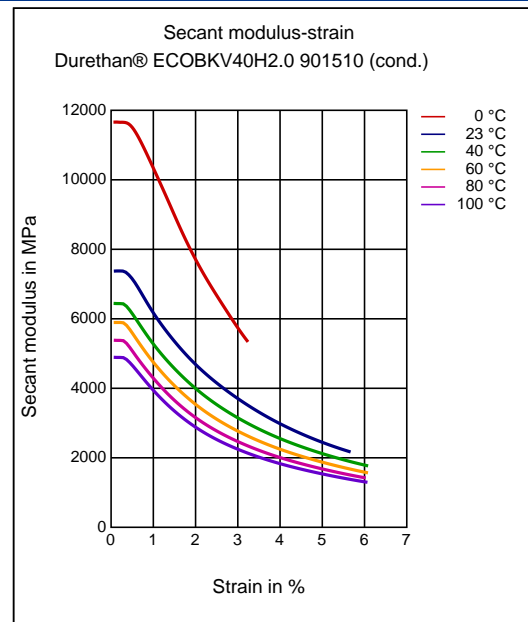
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Injection Molding PREPROCESSING

Special Characteristics

Heat aging stabilized

Certifications

Recycled Resin Content

Residual moisture content: 0.03 - 0.12%

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 270 - 290 °C

Mold temperature: 80 - 120 °C

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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