

Durethan® BKV15H3.0 000000 DUS008
PA6-GF15

Envalior

Injection Molding, 15% Glass Reinforced, Heat Stabilized

ISO 1043 PA6-GF15

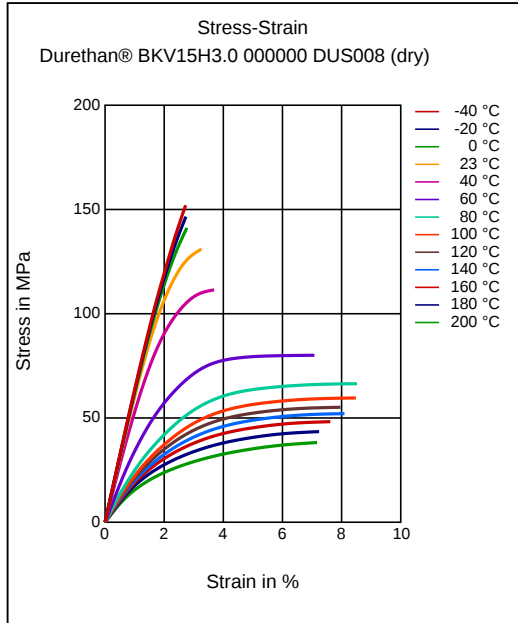
Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6500 / 3100	MPa	ISO 527
Stress at Break	130 / 65	MPa	ISO 527
Strain at Break	3 / 12	%	ISO 527
Impact Strength (Charpy), +23°C	50 / 100	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	45 / 45	kJ/m ²	ISO 179/1eU
Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	195 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1230 / -	kg/m ³	ISO 1183
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
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.12	%	-
Melt temperature	260 - 290	°C	-
Mold temperature	80 - 100	°C	-

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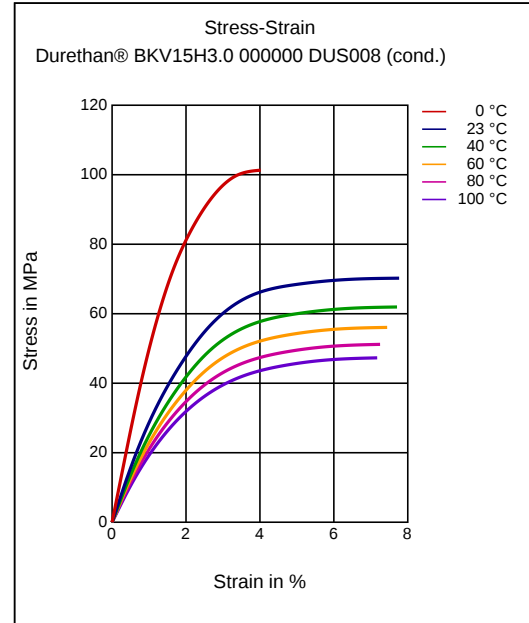
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Diagrams

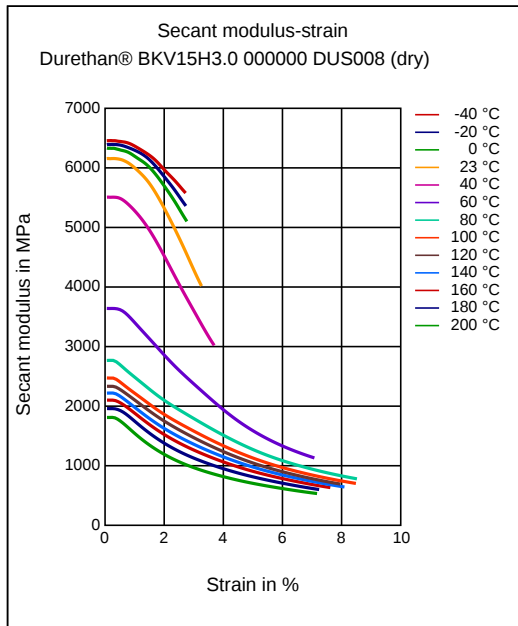
Stress-strain



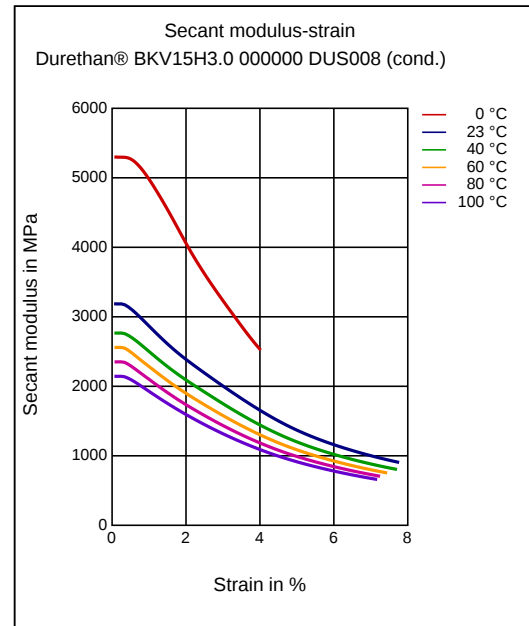
Stress-strain



Secant modulus-strain



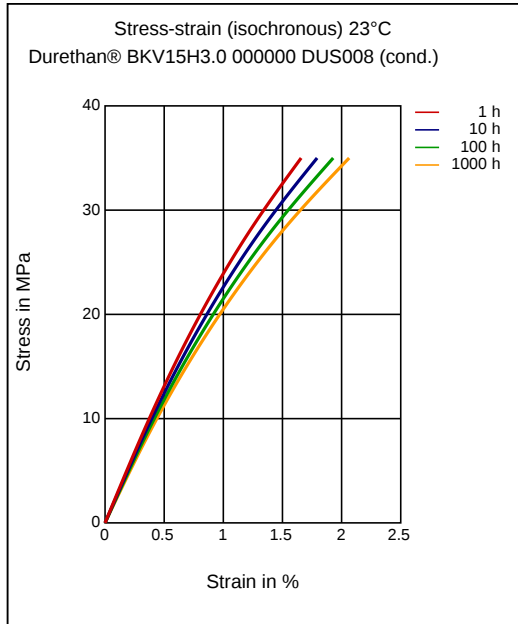
Secant modulus-strain



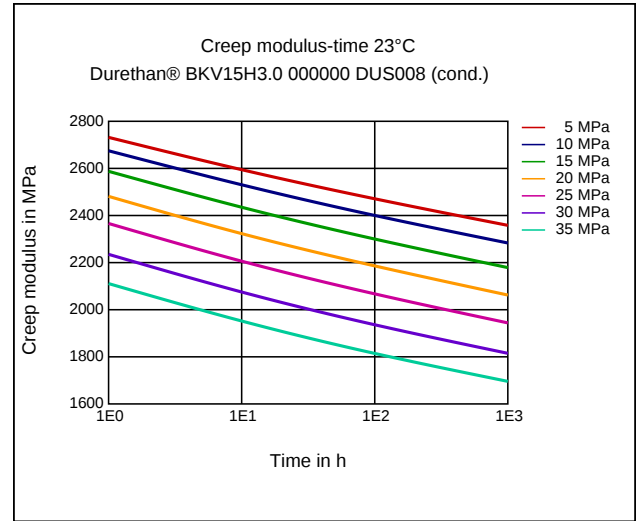
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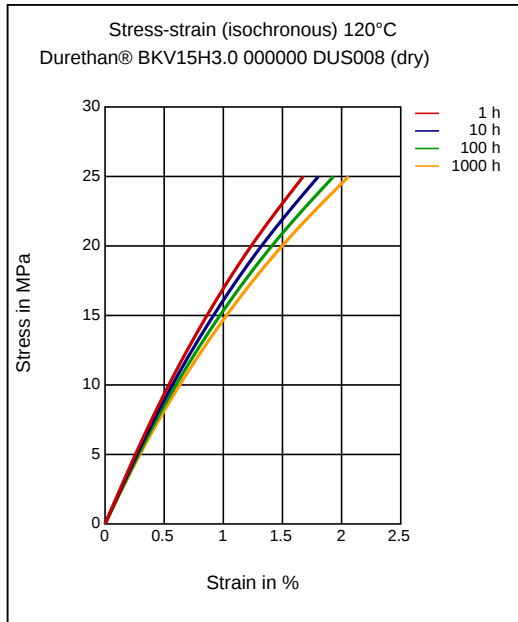
Stress-strain (isochronous) 23°C



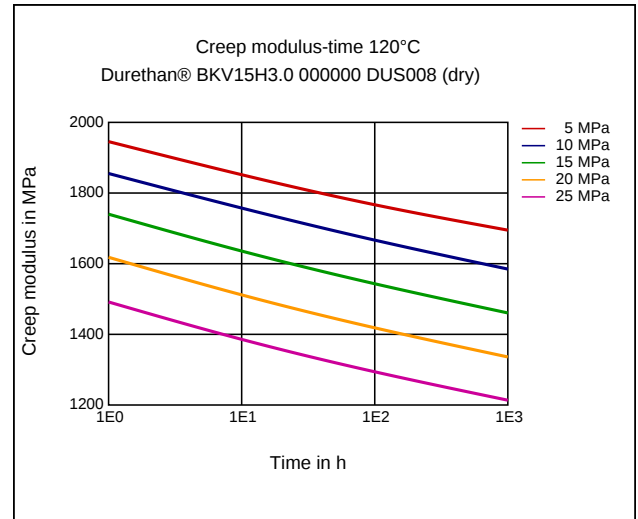
Creep modulus-time 23°C



Stress-strain (isochronous) 120°C



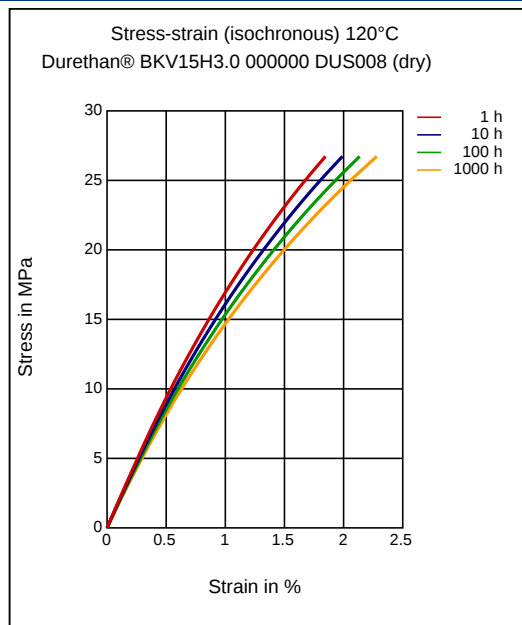
Creep modulus-time 120°C



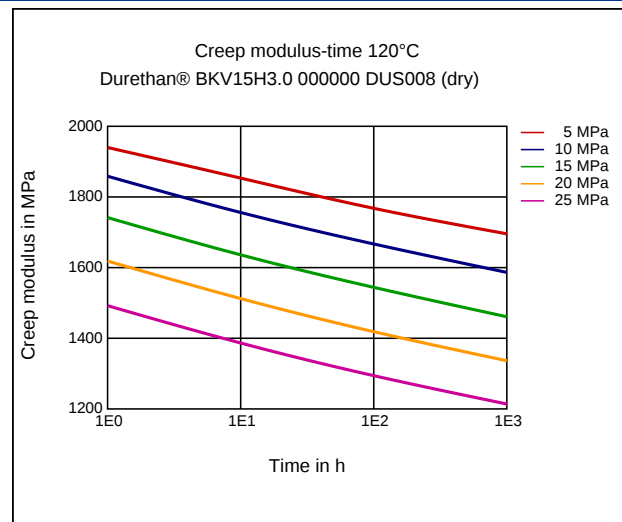
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Stress-strain (isochronous) 120 °C



Creep modulus-time 120 °C



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Heat aging stabilized

Injection Molding

PREPROCESSING

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): 260 - 290 °C

Mold temperature: 80 - 100 °C