

Durethan® BKV315ZH2.0 901510
PA6-I-GF15

Envalior

Blow Molding Grade, 15% Glass Reinforced, Extrusion, Heat Stabilized, Improved Impact

ISO 1043 PA6-I-GF15

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	5300 / 2500	MPa	ISO 527
Stress at Break	105 / 55	MPa	ISO 527
Strain at Break	5 / 19	%	ISO 527
Impact Strength (Charpy), +23°C	80 / 105	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	85 / 90	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	15 / 30	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	- / 10	kJ/m ²	ISO 179/1eA
Puncture - maximum force, +23°C	1200 / -	N	ISO 6603-2
Puncture - maximum force, -30°C	630 / -	N	ISO 6603-2
Puncture energy, +23°C	4.9 / -	J	ISO 6603-2
Puncture energy, -30°C	2.5 / -	J	ISO 6603-2
Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	175 / *	°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	40 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	130 / *	E-6/K	ISO 11359-1/-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			
Comparative tracking index	375 / -	-	IEC 60112
Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1200 / -	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	≤0.06	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 120	°C	-

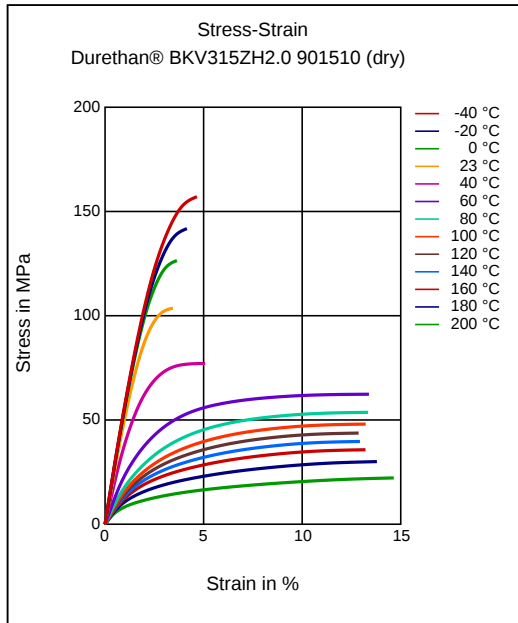
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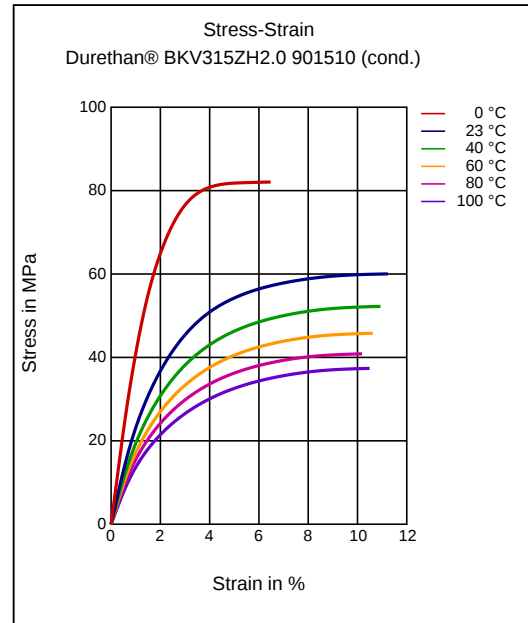
Envalior

Diagrams

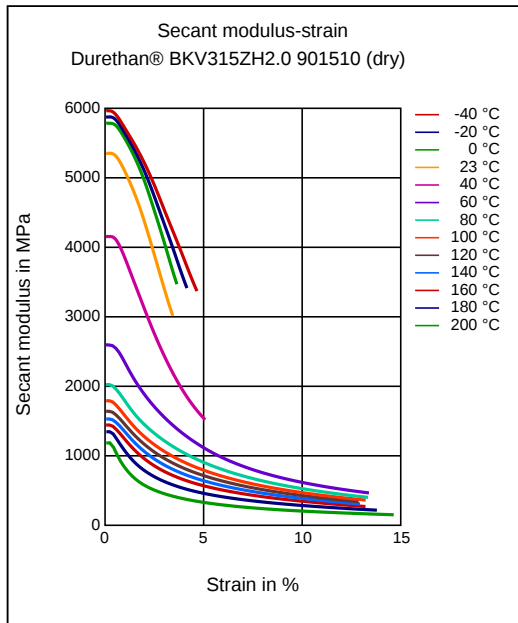
Stress-strain



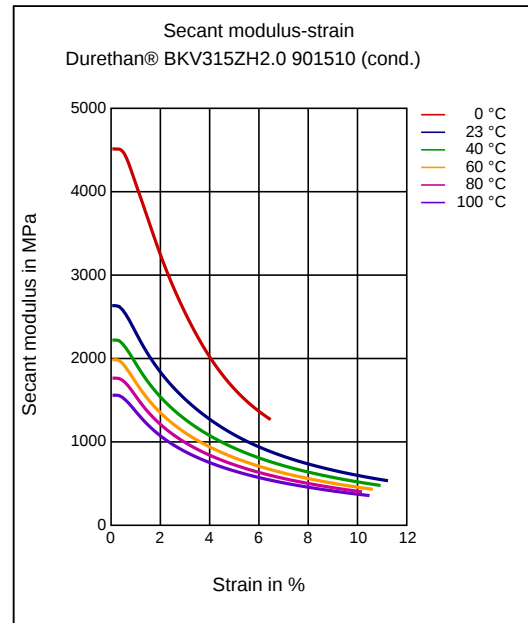
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion, Blow Molding

Delivery form

Pellets

Injection Molding

PREPROCESSING

Special Characteristics

Impact modified, Heat aging stabilized

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Residual moisture content: 0.00 - 0.06%

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
