


**EcoPaXX® Q-HG10**

PA410-GF50

DSM Engineering Plastics

**Product Texts**

50% Glass Reinforced, Heat Stabilized

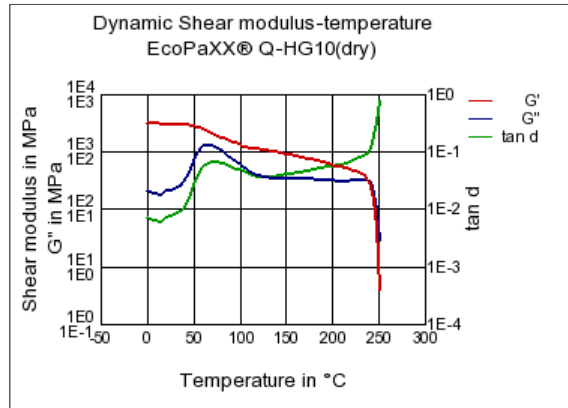
ISO 1043 PA410-GF50

[EcoPaXX website](#)

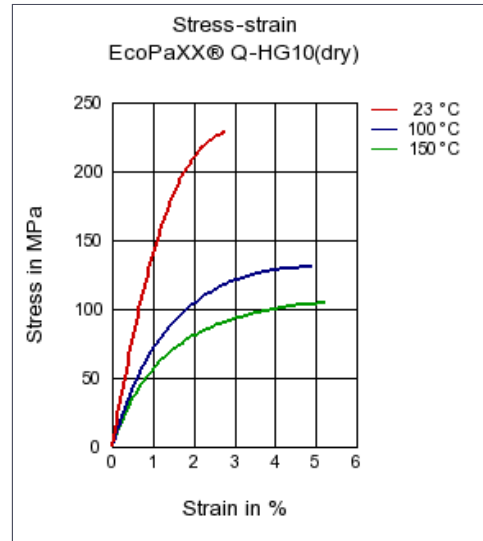
Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	16000 / 12000	MPa	ISO 527-1/-2
Stress at break	220 / 170	MPa	ISO 527-1/-2
Strain at break	3 / 3.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / 85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	80 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 19	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	12 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature (10°C/min)	250 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	215 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	245 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	42 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50 / *	E-6/K	ISO 11359-1/-2
<b>Other properties</b>			
<b>ISO Data</b>			
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1520 / -	kg/m <sup>3</sup>	ISO 1183

Diagrams

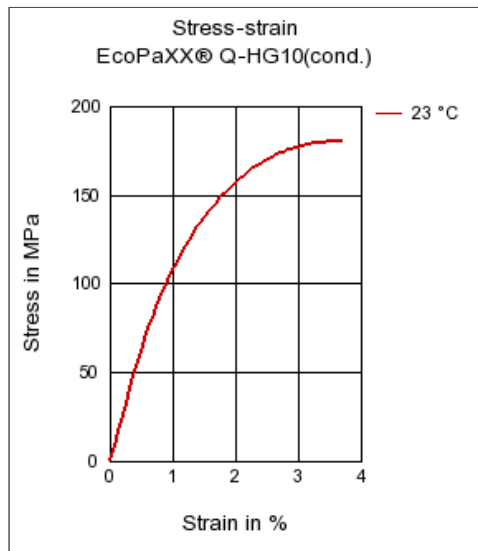
Dynamic Shear modulus-temperature



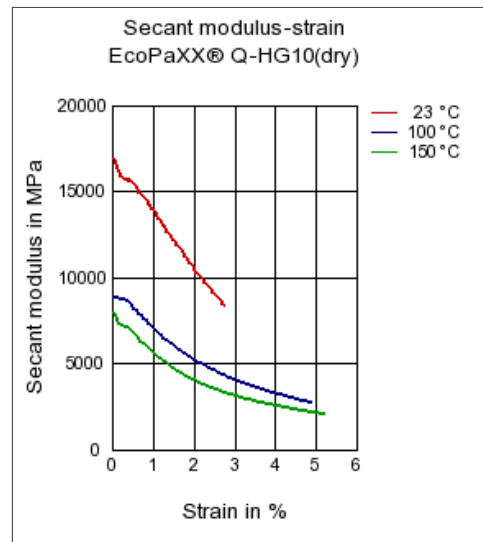
Stress-strain



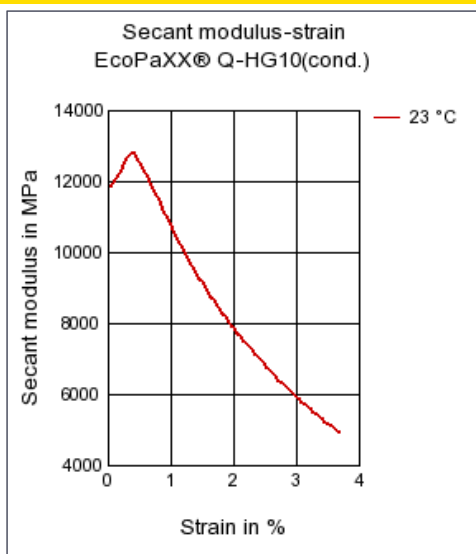
Stress-strain



Secant modulus-strain



## Secant modulus-strain



## Characteristics

## Processing

Injection Molding

## Special Characteristics

Heat stabilized or stable to heat

## Delivery form

Granules

## Ecological valuation

Contains renewable resources

## Additives

Release agent

## Other text information

## Injection Molding

[Injection Molding Recommendations](#)