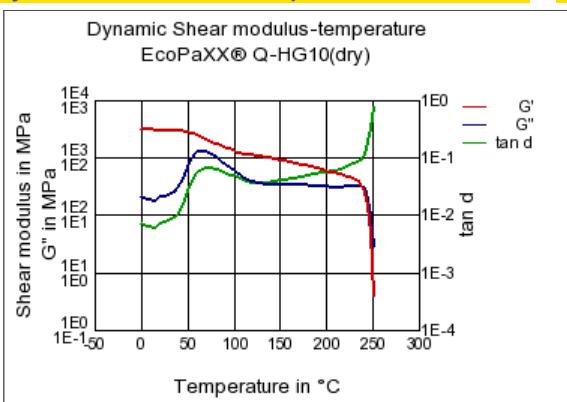


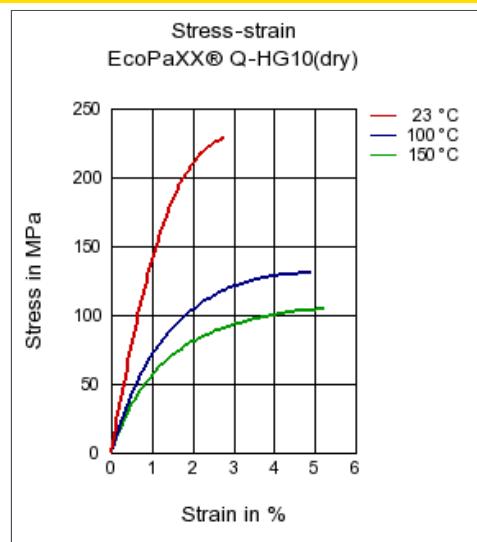
EcoPaXX® Q-HG10						
PA410-GF50	DSM Engineering Plastics					
Product Texts						
50% Glass Reinforced, Heat Stabilized						
ISO 1043 PA410-GF50						
EcoPaXX website						
Rheological properties	dry / cond	Unit	Test Standard			
ISO Data						
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577			
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577			
Mechanical properties						
ISO Data						
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 ²	ISO 179/1eU			
Charpy impact strength, -30°C	80 / -	kJ/m ²	ISO 179/1eU			
Charpy notched impact strength (+23°C)	15 / 19	kJ/m ²	ISO 179/1eA			
Charpy notched impact strength, -30°C	12 / -	kJ/m ²	ISO 179/1eA			
Thermal properties						
ISO Data						
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			
Other properties						
ISO Data						
Humidity absorption	1.1 / *	%	Sim. to ISO 62			
Density	1520 / -	kg/m ³	ISO 1183			

Diagrams

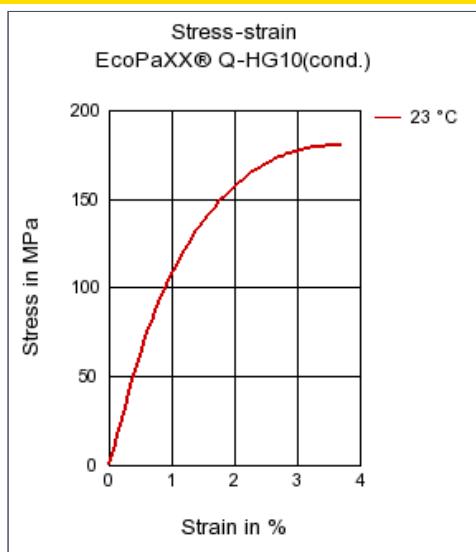
Dynamic Shear modulus-temperature



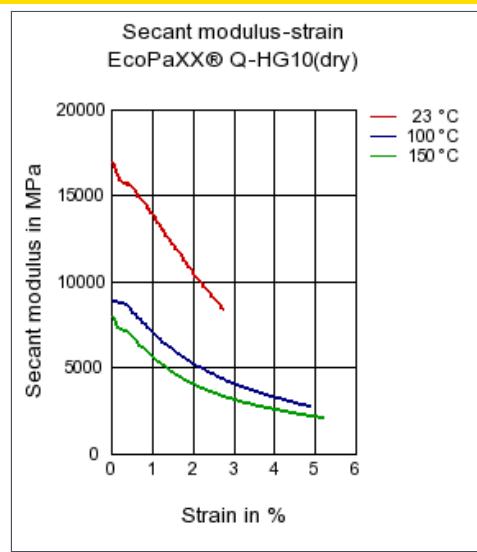
Stress-strain



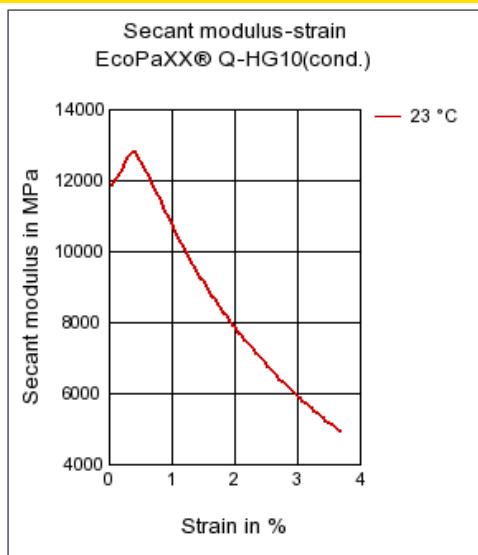
Stress-strain



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](#)