TER Plastics POLYMER GROUP

DSM

EcoPaXX® Q-HG6
PA410-GF30   DSM Engineering Plastics

Product Texts
30% Glass Reinforced, Heat Stabilized

ISO 1043 PA410-GF30

EcoPaXX website

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	36 / *	cm³/10min	ISO 1133
Temperature	290 / *	°C	ISO 1133
Load	5 / *	kg	ISO 1133
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	9500 / 7000	MPa	ISO 527-1/-2
Stress at break	170 / 115	MPa	ISO 527-1/-2
Strain at break	4 / 5.8	%	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	60 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 15	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	9 / -	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
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)	243 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	32 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	66 / *	E-6/K	ISO 11359-1/-2

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	1E12 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m³	ISO 1183

Diagrams

Dynamic Shear modulus-temperature
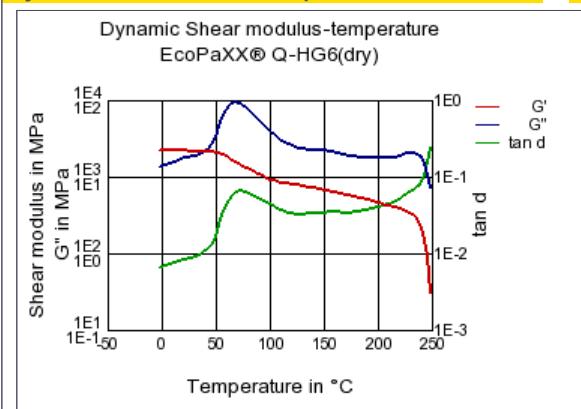
Dynamic Shear modulus-temperature
EcoPaXX® Q-HG6(dry)

Stress-strain

Stress-strain
EcoPaXX® Q-HG6(dry)

Stress-strain

Stress-strain
EcoPaXX® Q-HG6(cond.)

Secant modulus-strain

Secant modulus-strain
EcoPaXX® Q-HG6(dry)
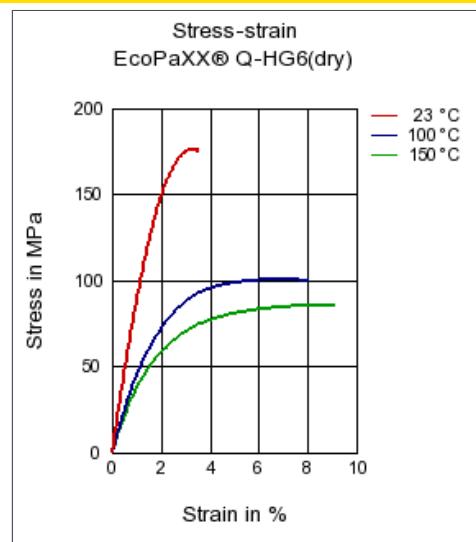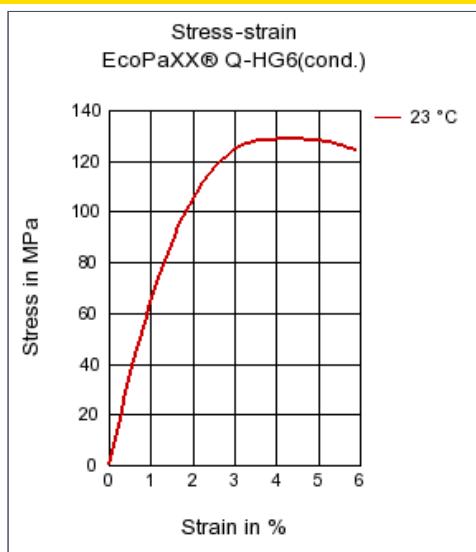
Secant modulus-strain
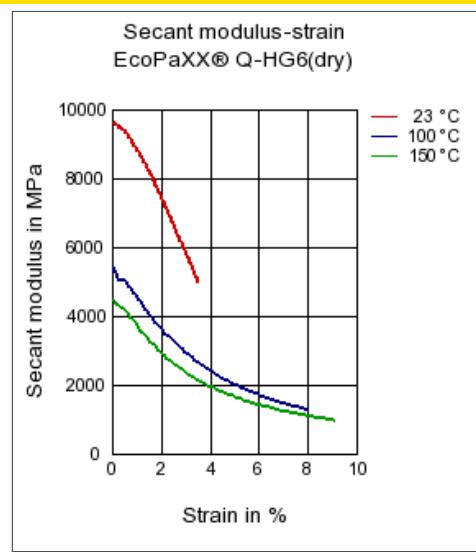
Secant modulus-strain
EcoPaXX® Q-HG6(cond.)
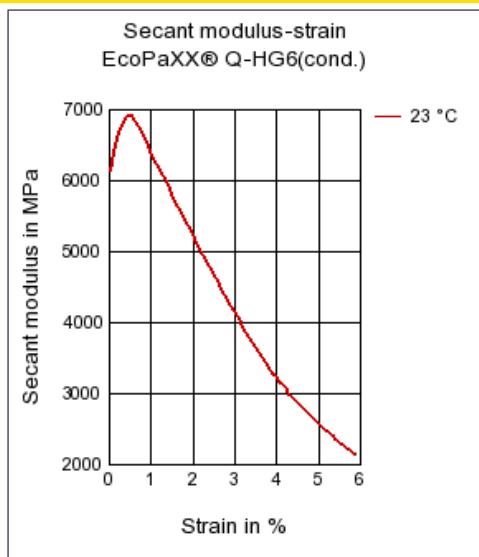
Characteristics

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