


EcoPaXX® Q-DWX10

PA410-GF50

Envalior

Product Texts

50% Glass Reinforced, Excellent Surface Properties, Drinking Water Grade, Food Contact Quality

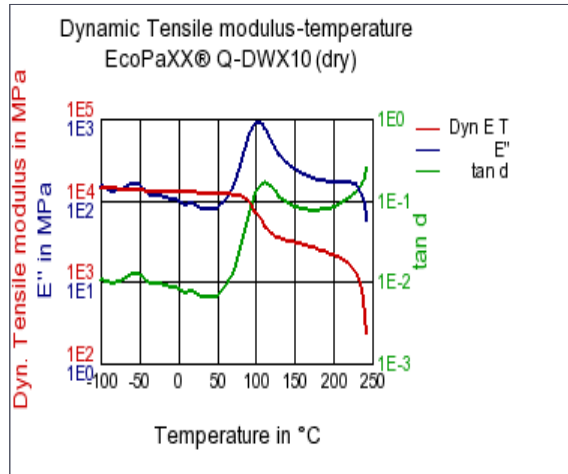
ISO 1043 PA410-GF50

EcoPaXX® Q-DWX10 is a long aliphatic polyamide with excellent mechanical & flow performance for use in food contact & drinking water applications

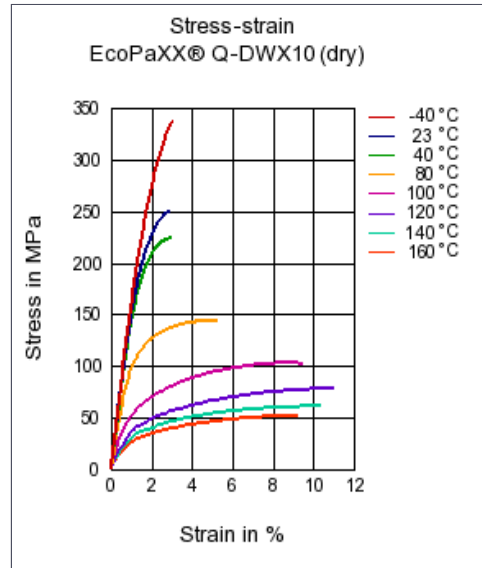
Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	16500 / 16000	MPa	ISO 527
Stress at break	240 / 210	MPa	ISO 527
Strain at break	3 / 3.3	%	ISO 527
Charpy impact strength, +23°C	100 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	90 / 75	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	16 / 13	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	14 / 13	kJ/m²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	250 / *	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	85 / *	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	235 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	16 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-
Electrical properties			
ISO Data			
Electric strength	27 / -	kV/mm	IEC 60243-1
Other properties			
ISO Data			
Water absorption	3 / *	%	Sim. to ISO 62
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1570 / -	kg/m³	ISO 1183

Diagrams

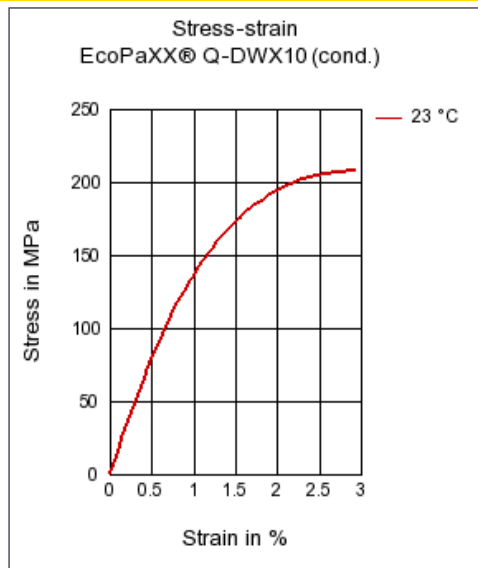
Dynamic Tensile modulus-temperature



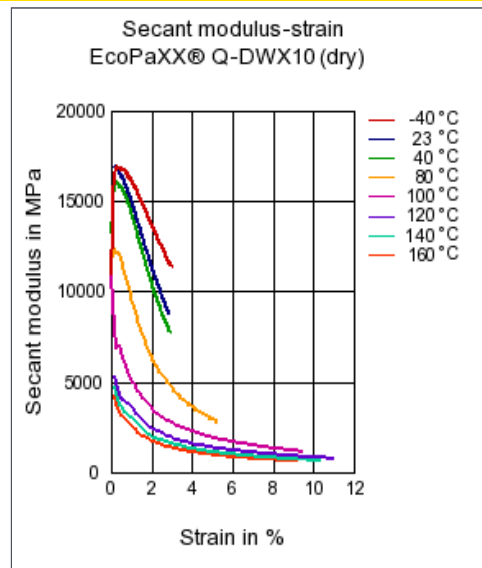
Stress-strain



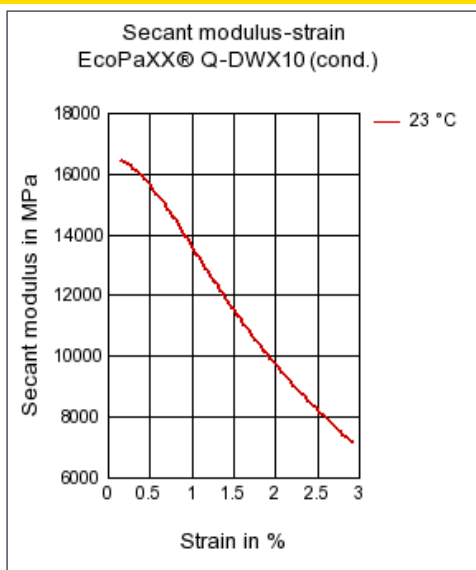
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Certifications

Contains renewable resources, Recycled Resin Content

Delivery form

Granules

Other text information

Injection Molding

[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)

Chemical Media Resistance

Alcohols



Methanol (23 °C)



Ethanol (23 °C)

Hydrocarbons



Toluene (23 °C)

Ketones



Acetone (23 °C)

Ethers



Diethyl ether (23 °C)

Other



Ethyl Acetate (23 °C)



Water (23 °C)