

TECHNICAL DATA SHEET

# EcoPaXX® Q-DWX6

Envalior  
PA410-GF30

**Processing**

Injection molding

Granules

**Certifications**

Contains renewable resources, Recycled resin content,  
Food contact, Drinking water contact

**Delivery Form**

## Product Text

**Product Information**

30% Glass Reinforced, Excellent Surface Properties, Drinking Water Grade, Food Contact Quality

ISO 1043 PA410-GF30

EcoPaXX® Q-DWX6 is a long aliphatic polyamide with excellent mechanical & flow performance for use in food contact & drinking water applications

Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.17	%	ISO 294-4, 2577
Molding shrinkage, normal	0.74	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	9500	MPa	ISO 527
Stress at break	190	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	8.5	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	250	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	85	°C	ISO 11357-1/-2

# EcoPaXX® Q-DWX6

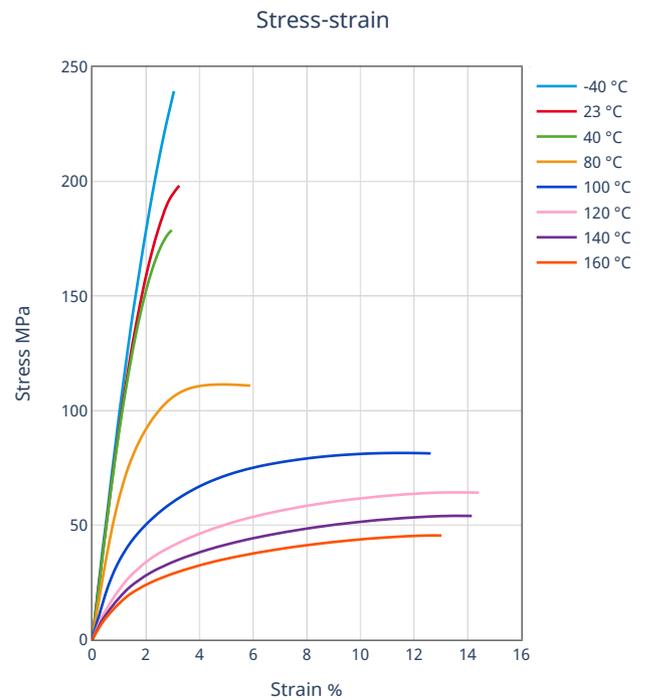
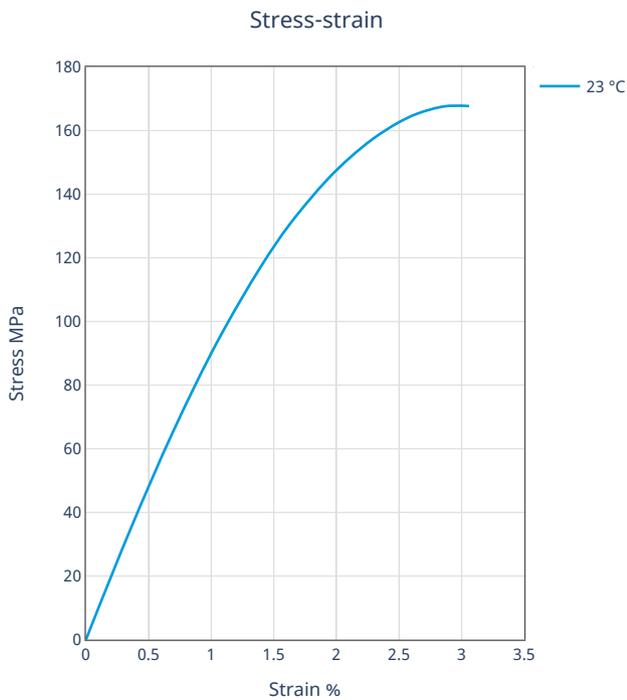
Envalior

Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	190	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	230	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	22	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	66	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	mm	
Yellow card available	yes		

Other Properties	Value	Unit	Standard
Water absorption	4	%	Sim. to ISO 62
Humidity absorption	1.5	%	Sim. to ISO 62
Density	1360	kg/m <sup>3</sup>	ISO 1183

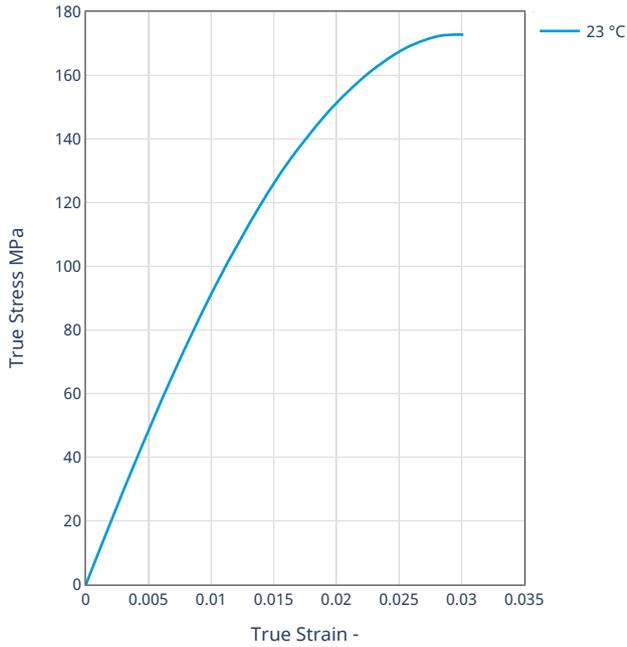
## Diagrams



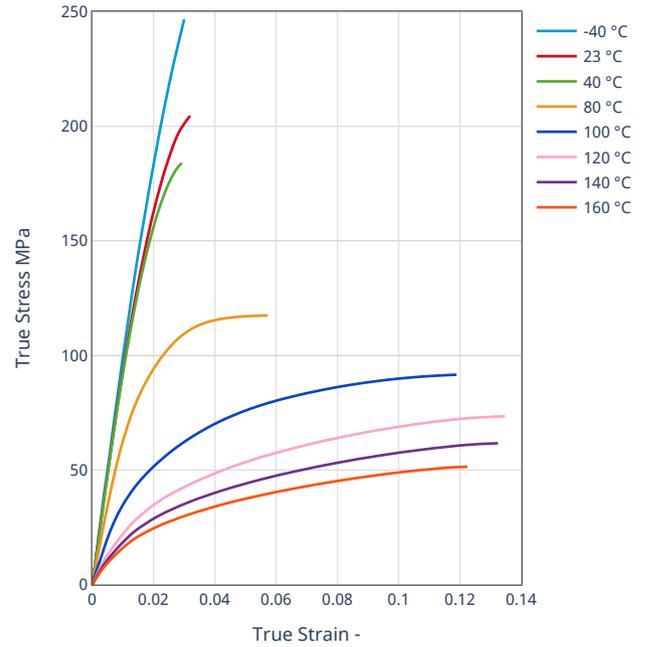
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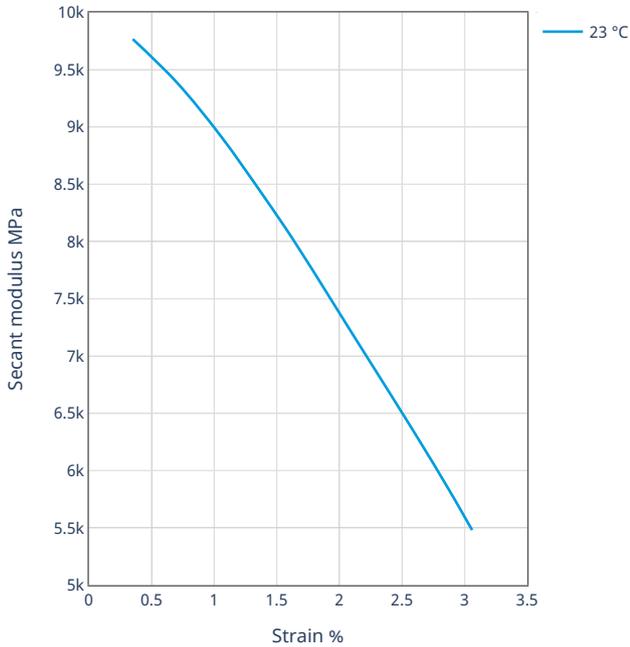
True stress-true strain



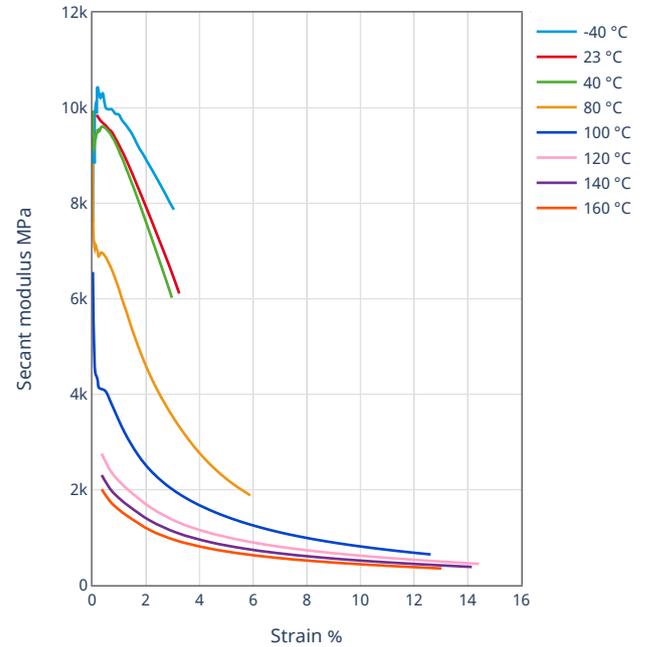
True stress-true strain



Secant modulus-strain



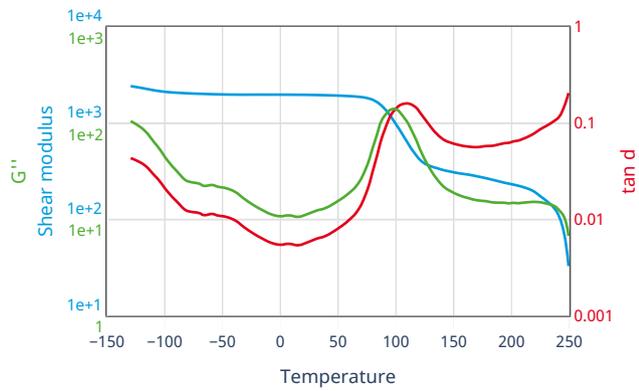
Secant modulus-strain



# EcoPaXX® Q-DWX6

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Dynamic shear modulus-temperature



## Processing Information

Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Trouble shooting guideline for injection molding