

TECHNICAL DATA SHEET

EcoPaXX® Q150-D

Envalior
PA410

Processing

Injection molding

Delivery Form

Granules

Certifications

Contains renewable resources, Food contact

Product Text

Product Information

Low/Medium Viscosity, Food Contact Quality

ISO 1043 PA410

EcoPaXX® Q150-D is a long aliphatic polyamide that offers low moisture uptake, good dimensional stability and excellent retention of properties.

Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	1.2	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
Density of melt	0.9	kg/m ³	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	3200	MPa	ISO 527
Yield stress	85	MPa	ISO 527
Yield strain	5	%	ISO 527
Nominal strain at break	16	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m ²	ISO 179/1eA

EcoPaXX® Q150-D

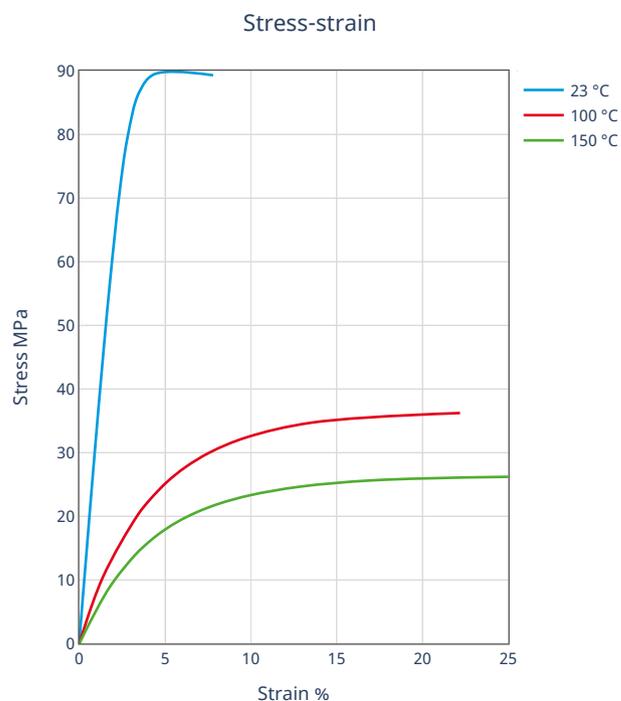
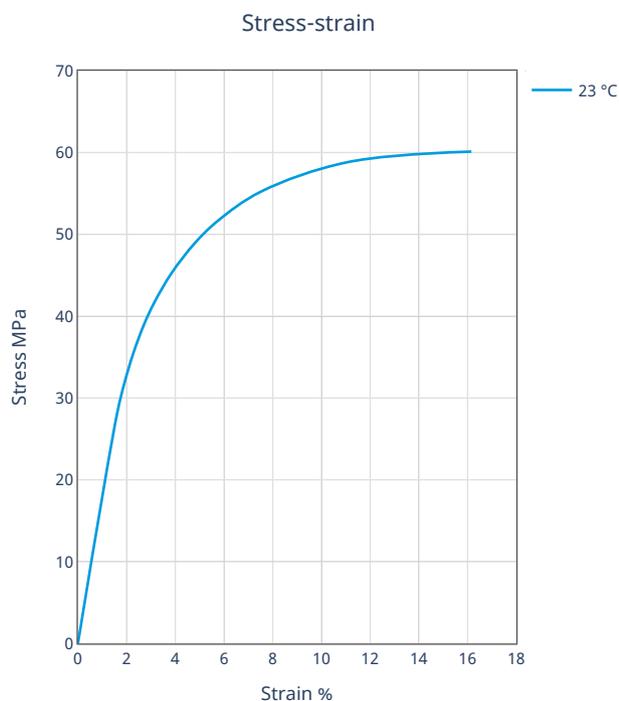
Envalior

Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	250	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	77	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	175	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	41	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	75	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	
Yellow card available	yes		

Other Properties	Value	Unit	Standard
Humidity absorption	2.1	%	Sim. to ISO 62
Density	1090	kg/m ³	ISO 1183

Material Specific Properties	Value	Unit	Standard
Viscosity number	150	cm ³ /g	ISO 307, 1157, 1628

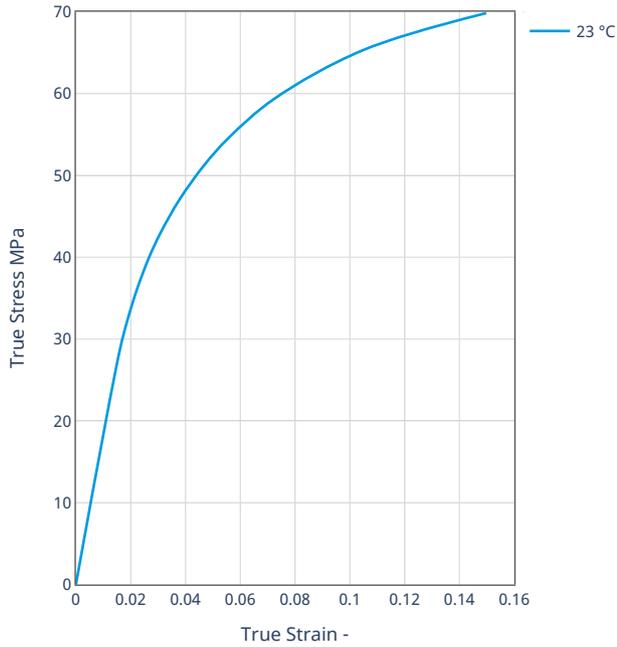
Diagrams



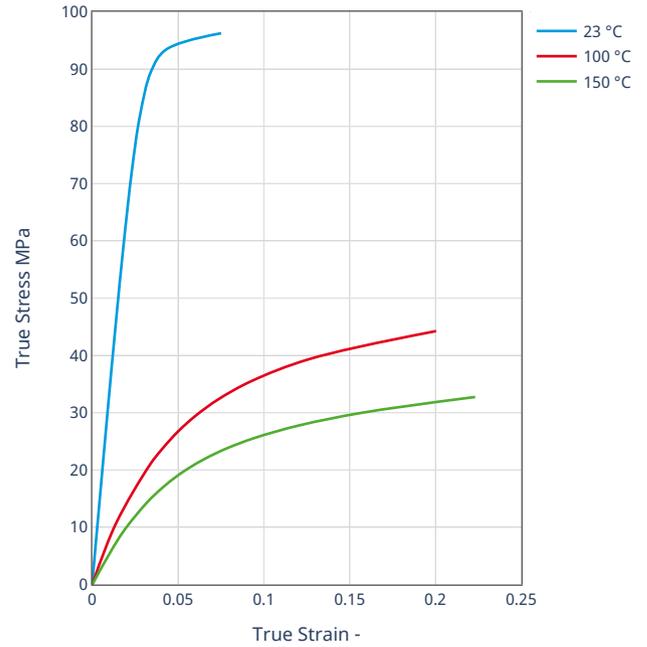
EcoPaXX® Q150-D

Envalior

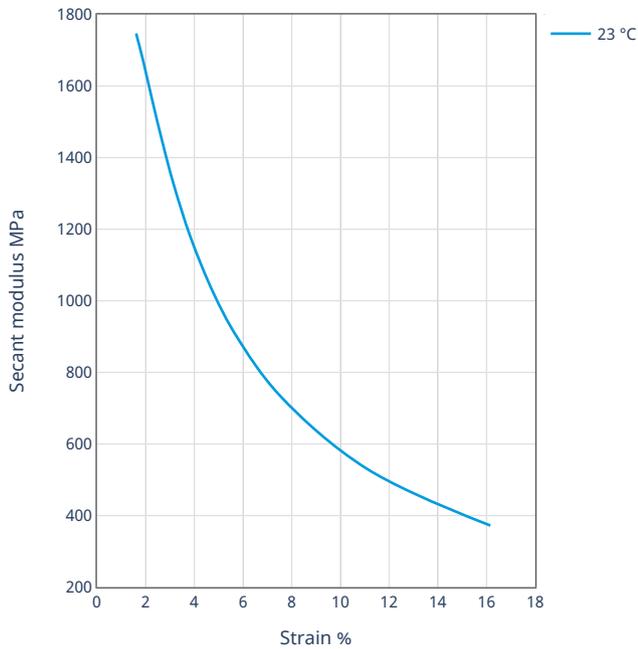
True stress-true strain



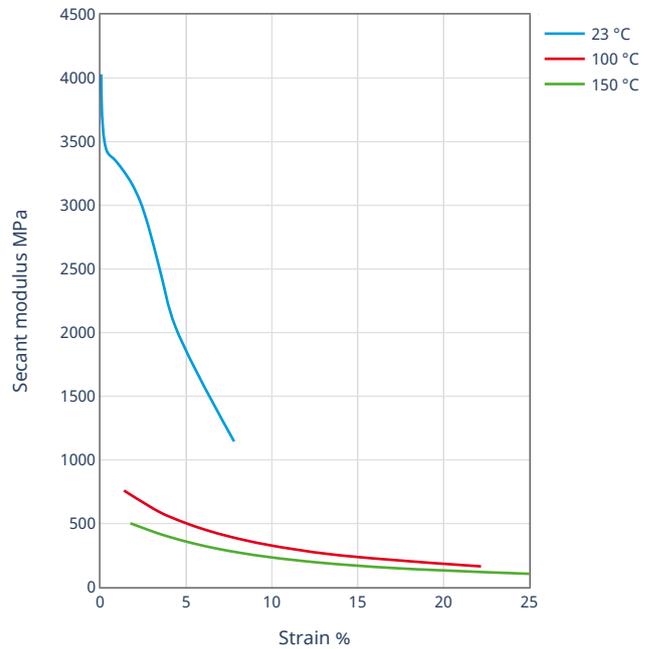
True stress-true strain



Secant modulus-strain



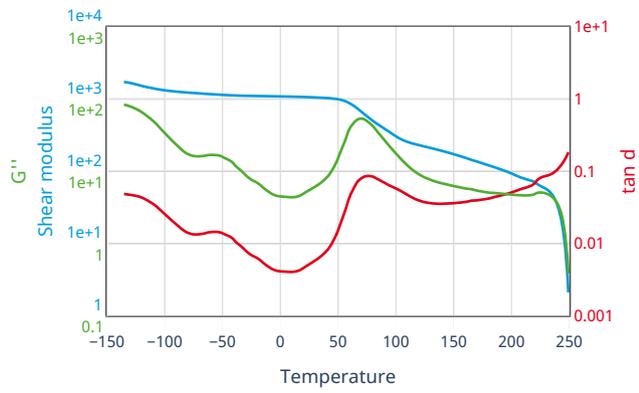
Secant modulus-strain



EcoPaXX® Q150-D

Envalior

Dynamic shear modulus-temperature



Dynamic tensile modulus-temperature

