

EcoPaXX[®] Q–DWX6

PA410–GF30

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

Print Date: 2024–04–16

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

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	0.17 / *	%	ISO 294–4
Molding shrinkage (normal)	0.74 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
<i>DRY / COND</i>			
Tensile modulus	9500 / 9300	MPa	ISO 527–1/–2
Stress at break	190 / 170	MPa	ISO 527–1/–2
Strain at break	3.3 / 3.5	%	ISO 527–1/–2
Tensile modulus (80°C)	6900 / –	MPa	ISO 527–1/–2
Stress at break (80°C)	110 / –	MPa	ISO 527–1/–2
Strain at break (80°C)	8 / –	%	ISO 527–1/–2
Tensile modulus (120°C)	2800 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	65 / –	MPa	ISO 527–1/–2
Strain at break (120°C)	15 / –	%	ISO 527–1/–2
Tensile modulus (140°C)	2500	MPa	ISO 527–1/–2
Stress at break (140°C)	55	MPa	ISO 527–1/–2
Strain at break (140°C)	14	%	ISO 527–1/–2
Tensile modulus (160°C)	2200	MPa	ISO 527–1/–2
Stress at break (160°C)	45	MPa	ISO 527–1/–2

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Strain at break (160°C)	13	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / 50	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 8	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8.5 / 7.5	kJ/m ²	ISO 179/1eA
Flexural modulus	9100 / 9000	MPa	ISO 178
Flexural strength	285 / 255	MPa	ISO 178

THERMAL PROPERTIES

DRY / COND

Melting temperature (10°C/min)	250 / *	°C	ISO 11357-1/-3
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)	0.22 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.66 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10

OTHER PROPERTIES

DRY / COND

Water absorption	4 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m ³	ISO 1183

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