

EcoPaXX® Q-KXG6

PA410-GF30

30% Glass Reinforced, for E&E applications, Excellent Surface Properties

Sustainability

Bio-based – 14C measurable

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	0.75 / *	%	ISO 294-4
Mechanical properties	dry / cond		
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
Strain at break (160°C)	13	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / 50	kJ/m ²	ISO 179/1eU



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Properties	Typical Data	Unit	Test Method
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
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

