

EcoPaXX® Q-KG5

PA410-GF25

25% Glass Reinforced

Print Date: 2019-06-05

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	8000 / -	MPa	ISO 527-1/-2
Stress at break	160 / -	MPa	ISO 527-1/-2
Strain at break	4 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / -	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	55 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / -	kJ/m ²	ISO 179/1eA
Flexural modulus	7500 / -	MPa	ISO 178
Flexural strength	250 / -	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)	220 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	240 / *	°C	ISO 75-1/-2
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	4.38 / -	-	IEC 60250
Relative permittivity (1 MHz)	3.74 / -	-	IEC 60250
Dissipation factor (100 Hz)	200 / -	E-4	IEC 60250
Dissipation factor (1 MHz)	240 / -	E-4	IEC 60250
Other properties			
	dry / cond		
Density	1280 / -	kg/m ³	ISO 1183

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Properties	Typical Data	Unit	Test Method
Biobased content	70	% (Bio C/Total C)	ASTM D6866-12 Method B