

EcoPaXX® Q-KGS6

PA410-GF30 FR

30% Glass Reinforced, Flame Retardant (halogen free)

Print Date: 2019-04-17

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.5 / *	%	ISO 294-4
Molding shrinkage (normal)	1.33 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	10000 / 7700	MPa	ISO 527-1/-2
Stress at break	135 / 90	MPa	ISO 527-1/-2
Strain at break	2.5 / 3.8	%	ISO 527-1/-2
Tensile modulus (120°C)	5000 / -	MPa	ISO 527-1/-2
Stress at break (120°C)	60 / -	MPa	ISO 527-1/-2
Strain at break (120°C)	3.2 / -	%	ISO 527-1/-2
Tensile modulus (160°C)	3900	MPa	ISO 527-1/-2
Stress at break (160°C)	45	MPa	ISO 527-1/-2
Strain at break (160°C)	3.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / 45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 7.5	kJ/m ²	ISO 179/1eA
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
Coeff. of linear therm. expansion (parallel)	0.4 / *	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.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10

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Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.8 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	775 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.8 / -	mm	IEC 60695-2-13

Electrical properties

dry / cond

Volume resistivity	>1E13 / 1E12	Ohm*m	IEC 60093
Surface resistivity	* / 6E13	Ohm	IEC 60093
Electric strength	40 / 30	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	V	IEC 60112

Other properties

dry / cond

Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1400 / -	kg/m ³	ISO 1183
Biobased content	60	% (Bio C/Total C)	ASTM D6866-12 Method B