

EcoPaXX® Q-KV

PA410 FR(30)

Flame Retardant (halogen-phosphorous-free)

Print Date: 2024-04-16

EcoPaXX® Q-KV is a halogen-free flame-retarded long aliphatic polyamide with UL94 V2 & CTI 600V rating with high flow and ductility. It offers excellent retention of electric properties upon humidity uptake.

Sustainability

Bio-based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	1.2 / *	%	ISO 294-4
Molding shrinkage (normal)	1/*	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	3900 / 2000	MPa	ISO 527-1/-2
Nominal strain at break	5.5 / 35	%	ISO 527-1/-2
Yield stress	80 / 50	MPa	ISO 527-1/-2
Yield strain	4 / 15	%	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / -	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3.2 / 5	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3/-	kJ/m²	ISO 179/1eA
Flexural modulus	3700 / 2200	MPa	ISO 178
Flexural strength	120 / 65	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)	110 / *	°C	ISO 75-1/-2

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Temp. of deflection under load (0.45 MPa)	190 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	960 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75 / –	mm	IEC 60695-2-13
	DDV / OOND		
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	3.85 / –		IEC 62631-2-1
Relative permittivity (1 MHz)	3.5 / –		IEC 62631-2-1
Dissipation factor (100 Hz)	140 / –	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	200 / -	E-4	IEC 62631-2-1
Volume resistivity	>1E13 / 7E11	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 6E13	Ohm	IEC 62631-3-2
Electric strength	32 / 27	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112
OTHER PROPERTIES	DDV / OOND		
OTHER PROPERTIES	DRY / COND		
Water absorption	5 / *	%	Sim. to ISO 62
Water absorption in water at 23°C after 24h	0.7 / *	%	ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1150 / –	kg/m³	ISO 1183

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