

# EcoPaXX<sup>®</sup> Q–KS

## PA410 FR(30)

Flame Retardant (halogen–phosphorous–free)

Print Date: 2026–05–12

EcoPaXX<sup>®</sup> Q–KS is a versatile halogen–free flame–retarded long aliphatic polyamide with UL94 V0 & 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
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	1.1 / *	%	ISO 294–4
Molding shrinkage (normal)	0.9 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	3800 / 2200	MPa	ISO 527–1/–2
Nominal strain at break	6 / 30	%	ISO 527–1/–2
Yield stress	75 / 50	MPa	ISO 527–1/–2
Yield strain	4 / 12.5	%	ISO 527–1/–2
Tensile modulus (80°C)	1300 / –	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	75 / –	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	85 / 85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	2.8 / 2.7	kJ/m <sup>2</sup>	ISO 179/1eA
Flexural modulus	3900 / 2300	MPa	ISO 178
Flexural strength	120 / 65	MPa	ISO 178
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Melting temperature (10°C/min)	250 / *	°C	ISO 11357–1/–3

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Temp. of deflection under load (1.80 MPa)	110 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	190 / *	°C	ISO 75-1/-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
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Oxygen index	36 / *	%	ISO 4589-1/-2
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
<b><i>ELECTRICAL PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Relative permittivity (100Hz)	3.85 / -	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.45 / -	-	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 / 600	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Water absorption	4.8 / *	%	Sim. to ISO 62
Water absorption in water at 23°C after 24h	0.6 / *	%	ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1160 / -	kg/m <sup>3</sup>	ISO 1183

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