

EcoPaXX[®] Q–KGS6

PA410–GF30 FR(40)

30% Glass Fiber Reinforced, Flame Retardant (halogen free)

Print Date: 2025–10–25

EcoPaXX[®] Q–KGS6 is a versatile halogen–free flame–retarded long aliphatic polyamide with UL94 V0 & CTI 600V rating for use in various connectors and housings. 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)	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/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 7.5	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	250 / *	°C	ISO 11357–1/–3

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.
Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.
Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.
Copyright © Envalior 2025. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

EcoPaXX® Q–KGS6

Print Date: 2025–10–25

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Temp. of deflection under load (1.80 MPa)	220 / *	°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
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 62631–3–1
Surface resistivity	– / 6E13	Ohm	IEC 62631–3–2
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/m³	ISO 1183

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.
Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.
Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.
Copyright © Envalior 2025. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.