

EcoPaXX[®] Q–KG6

PA410–GF30

30% Glass Reinforced, for E&E applications

Print Date: 2024–04–16

EcoPaXX[®] Q–KG6 is a long aliphatic polyamide that offers low moisture uptake and good flow for use in precision parts and connectors

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	0.6 / *	%	ISO 294–4
Molding shrinkage (normal)	1.1 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
<i>DRY / COND</i>			
Tensile modulus	9500 / 7000	MPa	ISO 527–1/–2
Stress at break	170 / 115	MPa	ISO 527–1/–2
Strain at break	4 / 5.8	%	ISO 527–1/–2
Tensile modulus (120°C)	4600 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	85 / –	MPa	ISO 527–1/–2
Strain at break (120°C)	8.2 / –	%	ISO 527–1/–2
Tensile modulus (160°C)	3700	MPa	ISO 527–1/–2
Stress at break (160°C)	70	MPa	ISO 527–1/–2
Strain at break (160°C)	9.4	%	ISO 527–1/–2
Charpy impact strength (+23°C)	80 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	60 / –	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	9 / –	kJ/m ²	ISO 179/1eA
Flexural modulus	8500 / 6300	MPa	ISO 178

All the trademarks mentioned here are trademarks of Envalior.

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 2024. 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.

Property Data

EcoPaXX[®] Q-KG6

Print Date: 2024-04-16

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Flexural strength	260 / 185	MPa	ISO 178
<i>THERMAL PROPERTIES</i>		<i>DRY / COND</i>	
Melting temperature (10°C/min)	250 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	215 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	243 / *	°C	ISO 75-1/-2
<i>ELECTRICAL PROPERTIES</i>		<i>DRY / COND</i>	
Volume resistivity	>1E13 / 2E12	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1.5E14	Ohm	IEC 62631-3-2
Electric strength	40 / 35	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183

All the trademarks mentioned here are trademarks of Envalior.

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 2024. 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.