

EcoPaXX[®] Q–KG6–FC

PA410–GF30

30% Glass Reinforced, Food Contact Quality

Print Date: 2024–09–25

EcoPaXX[®] Q–KG6–FC has excellent processability and surface quality and is safe for use in a broad variety of food contact applications. For detailed statements and information regarding food contact approvals please contact your Envalior representative.

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294–4
Molding shrinkage (normal)	1.1 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
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

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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.

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Flexural modulus	8500 / 6300	MPa	ISO 178
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

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