

EcoPaXX[®] Q–HG10

PA410–GF50

50% Glass Reinforced, Heat Stabilized

Print Date: 2024–04–16

EcoPaXX[®] Q–HG10 is a long aliphatic polyamide with excellent chemical & hydrolysis resistance for use in thermal management applications as well as other structural parts.

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	0.4 / *	%	ISO 294–4
Molding shrinkage (normal)	0.8 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
<i>DRY / COND</i>			
Tensile modulus	16000 / 12000	MPa	ISO 527–1/–2
Stress at break	220 / 170	MPa	ISO 527–1/–2
Strain at break	3 / 3.5	%	ISO 527–1/–2
Tensile modulus (120°C)	7600 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	115 / –	MPa	ISO 527–1/–2
Strain at break (120°C)	6.4 / –	%	ISO 527–1/–2
Tensile modulus (160°C)	5900	MPa	ISO 527–1/–2
Stress at break (160°C)	95	MPa	ISO 527–1/–2
Strain at break (160°C)	7.7	%	ISO 527–1/–2
Charpy impact strength (+23°C)	80 / 85	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	80 / 90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 19	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	12 / 14	kJ/m ²	ISO 179/1eA
Flexural modulus	14600 / 11300	MPa	ISO 178

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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 strength	335 / 250	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)	245 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.14 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.69 / *	E-4/°C	ISO 11359-1/-2
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1520 / -	kg/m ³	ISO 1183

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