Property Data

Envalior
Imagine the Future

EcoPaXX® Q–HXGM24

PA410–(GF+MD)30

10% Glass Reinforced, 20% Mineral Reinforced, Heat Stabilized

Print Date: 2024–03–27

EcoPaXX® Q–HXGM24 is a long aliphatic polyamide with excellent surface esthetics and low warpage with good thermal properties and high flow for use in beauty covers.

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.76 / *	%	ISO 294–4
Molding shrinkage (normal)	1.25 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	7500 / 6000	MPa	ISO 527–1/–2
Stress at break	100 / 65	MPa	ISO 527–1/–2
Strain at break	2.6 / 3.6	%	ISO 527–1/–2
Tensile modulus (80°C)	2500 / –	MPa	ISO 527–1/–2
Stress at break (80°C)	45 / –	MPa	ISO 527–1/–2
Strain at break (80°C)	11 / –	%	ISO 527–1/–2
Tensile modulus (120°C)	2100 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	25 / –	MPa	ISO 527–1/–2
Strain at break (120°C)	12 / –	%	ISO 527–1/–2
Tensile modulus (160°C)	1600	MPa	ISO 527–1/–2
Stress at break (160°C)	20	MPa	ISO 527–1/–2
Strain at break (160°C)	20	%	ISO 527–1/–2
Charpy impact strength (+23°C)	35 / 40	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	30 / 35	kJ/m²	ISO 179/1eU

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Charpy notched impact strength (+23°C)	3.5 / 5	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	4 / 3	kJ/m²	ISO 179/1eA
Flexural modulus	6700 / –	MPa	ISO 178
Flexural strength	170 / –	MPa	ISO 178
THERMAL PROPERTIES	**DRY / COND**		
Melting temperature (10°C/min)	250 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	190 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	225 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.39 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.68 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES	**DRY / COND**		
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1340 / –	kg/m³	ISO 1183

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