Property Data

Envalior
Imagine the Future

EcoPaXX® Q–HGM24

PA410–(GF+MD)30

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

Print Date: 2024–03–27

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.65 / *	%	ISO 294–4
Molding shrinkage (normal)	1.1 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	7300 / 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 (120°C)	2500 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	45 / –	MPa	ISO 527–1/–2
Strain at break (120°C)	6.3 / –	%	ISO 527–1/–2
Tensile modulus (160°C)	2000	MPa	ISO 527–1/–2
Stress at break (160°C)	35	MPa	ISO 527–1/–2
Strain at break (160°C)	8.2	%	ISO 527–1/–2
Charpy impact strength (+23°C)	35 / 40	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	30 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 5.3	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	4 / –	kJ/m²	ISO 179/1eA
Flexural modulus	6650 / 4400	MPa	ISO 178
Flexural strength	175 / 115	MPa	ISO 178

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THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	250 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	235 / *	°C	ISO 75–1/–2
OTHER PROPERTIES	DRY / COND		
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1340 / –	kg/m³	ISO 1183

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