

EcoPaXX® Q-HGM24

PA410-(GF+MD)30

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

Print Date: 2019-04-04

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	8000 / 6000	MPa	ISO 527-1/-2
Stress at break	95 / 65	MPa	ISO 527-1/-2
Strain at break	2.5 / 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/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	30 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 5.3	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / -	kJ/m ²	ISO 179/1eA
Flexural modulus	6650 / 4400	MPa	ISO 178
Flexural strength	175 / 115	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)	200 / *	°C	ISO 75-1/-2

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Properties	Typical Data	Unit	Test Method
Temp. of deflection under load (0.45 MPa)	235 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.48 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.75 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Other properties	dry / cond		
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183
Biobased content	69	% (Bio C/Total C)	ASTM D6866-12 Method B