

EcoPaXX[®] Q-HG10

PA410-GF50

50% Glass Reinforced, Heat Stabilized

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.4/*	%	ISO 294-4
Molding shrinkage (normal)	0.8/*	%	ISO 294-4
Mechanical properties			
	dry / cond		
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
Charpy impact strength (+23°C)	80/85	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	80/-	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/-	kJ/m ²	ISO 179/1eA
Flexural modulus	14600/11300	MPa	ISO 178
Flexural strength	335/250	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)	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)	0.42/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5/*	E-4/°C	ISO 11359-1/-2
Other properties			
	dry / cond		
Humidity absorption	1.1/*	%	Sim. to ISO 62
Density	1520/-	kg/m ³	ISO 1183
Calculated bio based carbon content	70	%	ASTM 6866

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