EcoPaXX®

EcoPaXX® Q-PG6

PA410-I-GF30

30% Glass Reinforced, Impact Modified

Print Date: 2019-04-17

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.67 / *	%	ISO 294-4
Molding shrinkage (normal)	1.3 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	8000 / 6000	MPa	ISO 527-1/-2
Stress at break	150 / 110	MPa	ISO 527-1/-2
Strain at break	4.5 / 5.8	%	ISO 527-1/-2
Tensile modulus (120°C)	3800 / -	MPa	ISO 527-1/-2
Stress at break (120°C)	70 / -	MPa	ISO 527-1/-2
Strain at break (120°C)	8 / -	%	ISO 527-1/-2
Tensile modulus (160°C)	3000	MPa	ISO 527-1/-2
Stress at break (160°C)	55	MPa	ISO 527-1/-2
Strain at break (160°C)	9	%	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / 90	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	14 / -	kJ/m²	ISO 179/1eA
Flexural modulus	7500 / 5800	MPa	ISO 178
Flexural strength	220 / 160	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)	240 / *	°C	ISO 75-1/-2

Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Coeff. of linear therm. expansion (parallel)	0.55 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.65 / *	E-4/°C	ISO 11359-1/-2
Electrical properties	dry / cond		
Volume resistivity	>1E13 / 1E12	Ohm*m	IEC 60093
Electric strength	40 / 38	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1300 / -	kg/m³	ISO 1183
Biobased content	66	% (Bio C/Total C)	ASTM D6866-12 Method B