

EcoPaXX® Q-PG8 (Q-X07209)

PA410-I-GF40

40% Glass Reinforced, Impact Modified

Print Date: 2019-04-17

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	11000 / 8200	MPa	ISO 527-1/-2
Stress at break	180 / 130	MPa	ISO 527-1/-2
Strain at break	4 / 5.4	%	ISO 527-1/-2
Tensile modulus (120°C)	5000 / -	MPa	ISO 527-1/-2
Stress at break (120°C)	90 / -	MPa	ISO 527-1/-2
Strain at break (120°C)	9.5 / -	%	ISO 527-1/-2
Tensile modulus (160°C)	4000	MPa	ISO 527-1/-2
Stress at break (160°C)	70	MPa	ISO 527-1/-2
Strain at break (160°C)	10.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / 90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 25	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	14 / -	kJ/m ²	ISO 179/1eA
Flexural modulus	10500 / 8100	MPa	ISO 178
Flexural strength	270 / 190	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)	220 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	243 / *	°C	ISO 75-1/-2

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Properties	Typical Data	Unit	Test Method
Coeff. of linear therm. expansion (parallel)	0.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
Electrical properties			
	dry / cond		
Volume resistivity	>1E13 / 2E12	Ohm*m	IEC 60093
Electric strength	38 / 37	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112
Other properties			
	dry / cond		
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1390 / -	kg/m ³	ISO 1183
Biobased content	67	% (Bio C/Total C)	ASTM D6866-12 Method B