

EcoPaXX® Q-E7300

PA410-I

Tube Extrusion

Print Date: 2019-09-06

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	2.8 / *	%	ISO 294-4
Molding shrinkage (normal)	1.8 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	1800 / 900	MPa	ISO 527-1/-2
Nominal strain at break	30 / >50	%	ISO 527-1/-2
Yield stress	50 / 35	MPa	ISO 527-1/-2
Yield strain	6 / 20	%	ISO 527-1/-2
Tensile modulus (120°C)	350 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	220	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	65 / 75	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	20 / -	kJ/m ²	ISO 179/1eA
Flexural modulus	1750 / 950	MPa	ISO 178
Flexural strength	70 / 40	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)	75 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	140 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2 / *	E-4/°C	ISO 11359-1/-2

Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Other properties	dry / cond		
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1050 / -	kg/m ³	ISO 1183
Biobased content	56	% (Bio C/Total C)	ASTM D6866-12 Method B