

EcoPaXX® Q210E-H

PA410

High Viscosity, Heat Stabilized

Print Date: 2019-04-17

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	2.4 / *	%	ISO 294-4
Molding shrinkage (normal)	1.6 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	3000 / 1600	MPa	ISO 527-1/-2
Stress at break	55 / 40	MPa	ISO 527-1/-2
Strain at break	30 / >50	%	ISO 527-1/-2
Yield stress	85 / 55	MPa	ISO 527-1/-2
Yield strain	4.4 / 15	%	ISO 527-1/-2
Stress at break (120°C)	40 / -	MPa	ISO 527-1/-2
Strain at break (120°C)	230 / -	%	ISO 527-1/-2
Stress at break (140°C)	35	MPa	ISO 527-1/-2
Strain at break (140°C)	230	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 13	kJ/m ²	ISO 179/1eA
Flexural modulus	2850 / 1400	MPa	ISO 178
Flexural strength	115 / 55	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)	77 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	175 / *	°C	ISO 75-1/-2

EcoPaXX[®] Q210E-H

Print Date: 2019-04-17

Properties	Typical Data	Unit	Test Method
Other properties			
Water absorption	5.8 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m ³	ISO 1183
Biobased content	70	% (Bio C/Total C)	ASTM D6866-12 Method B

Material specific properties			
Viscosity number	210 / *	cm ³ /g	ISO 307, 1157, 1628

Viscosity-shear rate

