

EcoPaXX[®] Q210E–H

PA410

High Viscosity, Heat Stabilized, Food Contact Quality

Print Date: 2024–04–16

EcoPaXX[®] Q210E–H is a high viscous long aliphatic polyamide which offers excellent wear & friction properties at high humidity for use in gears, food conveyer belt parts and abrasive monofilaments.

Sustainability

Bio-based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	2.4 / *	%	ISO 294–4
Molding shrinkage (normal)	1.6 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
<i>DRY / COND</i>			
Tensile modulus	3000 / 1600	MPa	ISO 527–1/–2
Nominal strain at break	20 / >50	%	ISO 527–1/–2
Yield stress	85 / 55	MPa	ISO 527–1/–2
Yield strain	4.4 / 15	%	ISO 527–1/–2
Tensile modulus (80°C)	800 / –	MPa	ISO 527–1/–2
Tensile modulus (120°C)	600 / –	MPa	ISO 527–1/–2
Tensile modulus (140°C)	460	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.5 / 13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	4.5 / 3.2	kJ/m ²	ISO 179/1eA
Flexural modulus	2850 / 1400	MPa	ISO 178
Flexural strength	115 / 55	MPa	ISO 178

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
THERMAL PROPERTIES			
<i>DRY / COND</i>			
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
Coeff. of linear therm. expansion (parallel)	0.9 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
Oxygen index	24 / *	%	ISO 4589-1/-2
OTHER PROPERTIES			
<i>DRY / COND</i>			
Water absorption	5.8 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m ³	ISO 1183
MATERIAL SPECIFIC PROPERTIES			
<i>DRY / COND</i>			
Viscosity number	210 / *	cm ³ /g	ISO 307, 1157, 1628

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Viscosity-shear rate

