

# EcoPaXX<sup>®</sup> Q–Y

## PA410–I

Impact Modified

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EcoPaXX<sup>®</sup> Q–Y is an unfilled, impact–modified long aliphatic polyamide with good impact and surface esthetics for use in eye wear applications

### Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	1.2 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
<i>DRY / COND</i>			
Tensile modulus	2500 / 1300	MPa	ISO 527–1/–2
Stress at break	60 / 50	MPa	ISO 527–1/–2
Strain at break	45 / >50	%	ISO 527–1/–2
Yield stress	65 / –	MPa	ISO 527–1/–2
Yield strain	6 / –	%	ISO 527–1/–2
Charpy impact strength (+23°C)	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	N / –	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 20	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	9 / –	kJ/m <sup>2</sup>	ISO 179/1eA
Flexural modulus	2400 / 1300	MPa	ISO 178
Flexural strength	95 / 50	MPa	ISO 178
<b>THERMAL PROPERTIES</b>			
<i>DRY / COND</i>			
Melting temperature (10°C/min)	250 / *	°C	ISO 11357–1/–3

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## Property Data (Provisional)

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Temp. of deflection under load (1.80 MPa)	76 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	165 / *	°C	ISO 75–1/–2
<b><i>ELECTRICAL PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Volume resistivity	>1E13 / 1E12	Ohm*m	IEC 62631–3–1
Electric strength	34 / 30	kV/mm	IEC 60243–1
Comparative tracking index	* / 600	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1080 / –	kg/m <sup>3</sup>	ISO 1183

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