

# EcoPaXX<sup>®</sup> Q210E–H

## PA410

High Viscosity, Heat Stabilized, Food Contact Quality

Print Date: 2024–08–30

EcoPaXX<sup>®</sup> 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
<b>RHEOLOGICAL PROPERTIES</b>			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	2.4 / *	%	ISO 294–4
Molding shrinkage (normal)	1.6 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
<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 <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.5 / 13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	4.5 / 3.2	kJ/m <sup>2</sup>	ISO 179/1eA
Flexural modulus	2850 / 1400	MPa	ISO 178
Flexural strength	115 / 55	MPa	ISO 178

All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

## Property Data

# EcoPaXX<sup>®</sup> Q210E-H

Print Date: 2024-08-30

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>THERMAL PROPERTIES</b>			
<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
<b>OTHER PROPERTIES</b>			
<i>DRY / COND</i>			
Water absorption	5.8 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m <sup>3</sup>	ISO 1183
<b>MATERIAL SPECIFIC PROPERTIES</b>			
<i>DRY / COND</i>			
Viscosity number	210 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628

All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

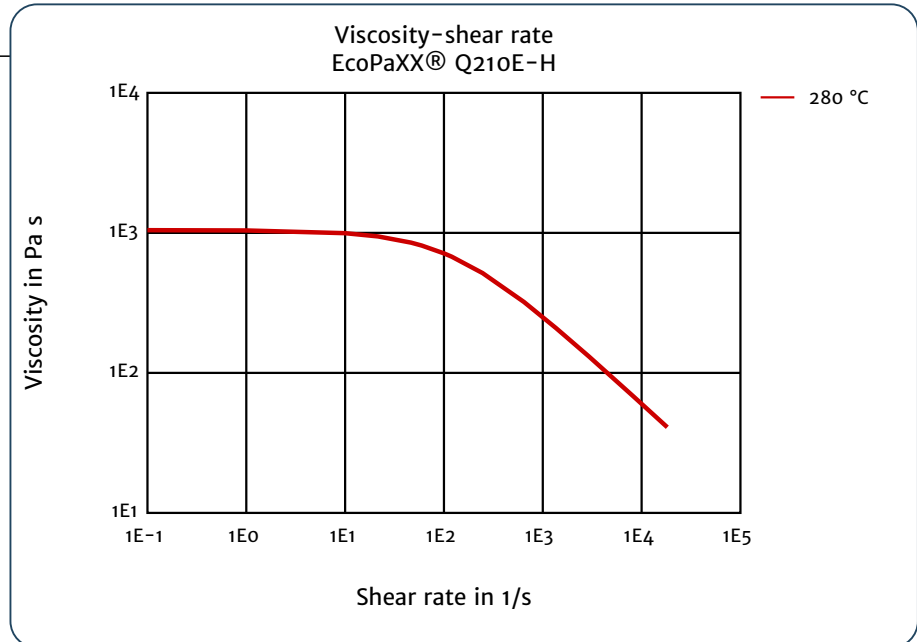
Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

## Property Data

# EcoPaXX<sup>®</sup> Q210E-H

Print Date: 2024-08-30

### Viscosity-shear rate



All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.