

EcoPaXX[®] Q150–D

PA410

Low/Medium Viscosity, Food Contact Quality

Print Date: 2024–04–16

EcoPaXX[®] Q150–D is a long aliphatic polyamide that offers low moisture uptake, good dimensional stability and excellent retention of properties.

Sustainability

Bio-based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
<i>DRY / COND</i>			
Molding shrinkage (parallel)	1.2 / *	%	ISO 294–4
Molding shrinkage (normal)	1.3 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
<i>DRY / COND</i>			
Tensile modulus	3200 / 1700	MPa	ISO 527–1/–2
Nominal strain at break	16 / >50	%	ISO 527–1/–2
Yield stress	85 / 60	MPa	ISO 527–1/–2
Yield strain	5 / 16	%	ISO 527–1/–2
Tensile modulus (120°C)	750 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	540	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 / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	3 / –	kJ/m ²	ISO 179/1eA
Flexural modulus	2900 / 1450	MPa	ISO 178
Flexural strength	115 / 55	MPa	ISO 178

THERMAL PROPERTIES

DRY / COND

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</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)	0.41 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.75 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	825 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.8 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	850 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.8 / -	mm	IEC 60695-2-13
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m ³	ISO 1183
<i>MATERIAL SPECIFIC PROPERTIES</i>	<i>DRY / COND</i>		
Viscosity number	150 / *	cm ³ /g	ISO 307, 1157, 1628

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