



MDX

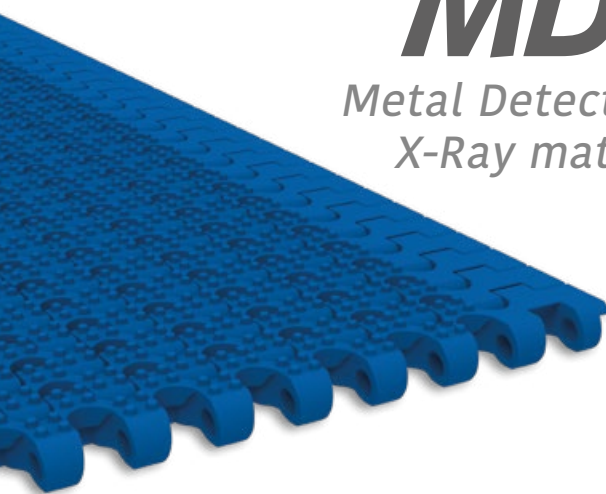
Metal Detectable X-Ray material

Movex[®]

www.movexii.com

MDX

*Metal Detectable
X-Ray material*



X-ray detectability

Enhanced with a special compound to ensure optimal X-ray detectability.



Easy visual detection

Improved detection efficiency in food processing environments.



Impact-resistant design

Developed to further reduce the risk of contamination compared to standard POM.



Direct food contact

MDX is suitable for direct food contact in compliance with FDA & EU regulations.



Complete range of belt series

The entire Movex Blueline belt series is available in MDX material upon request.

Movex MDX: A New Standard for Safety in Food Conveying

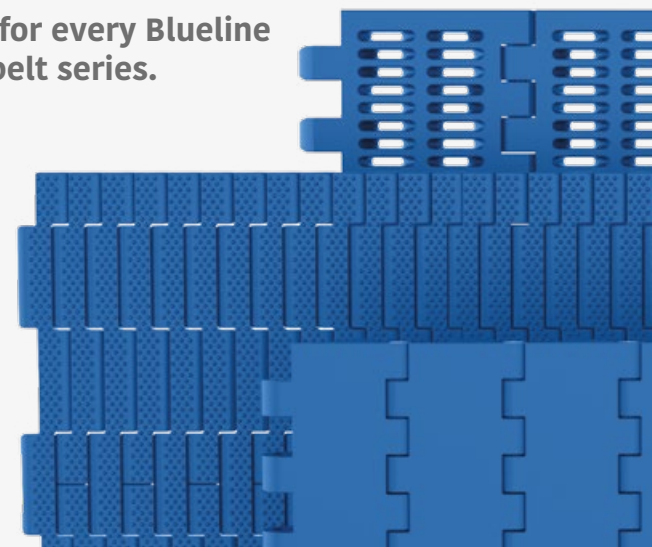
To meet the needs of a constantly evolving market – which has seen a growing use of X-ray inspection systems in quality control processes within the food and packaging industries – Movex has developed MDX, a thermoplastic material based on POM with a compound specifically formulated to be detectable by X-ray systems.

The MDX formulation maintains the mechanical performance of standard POM – such as high stiffness, dimensional stability, and wear resistance – while adding the key feature of X-ray detectability, allowing for quick identification and removal of any accidental fragments along the production line, including broken belt particles.

Movex makes MDX available across its full range of Blueline plastic modular belts, offering an effective and versatile solution to minimize contamination risks and support compliance with major international food safety standards such as BRC, IFS, FDA, HACCP.



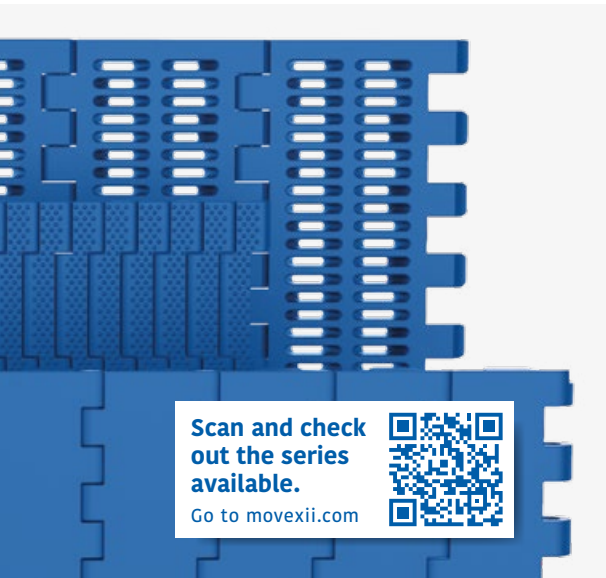
Available for every Blueline modular belt series.





Industries we serve:

- ✓ Food processing
(meat, poultry, seafood, dairy, bakery, snacks, ready meals)
- ✓ Beverage & packaging
- ✓ Pharmaceutical & nutraceutical
- ✓ Pet food



Scan and check
out the series
available.

Go to movexii.com

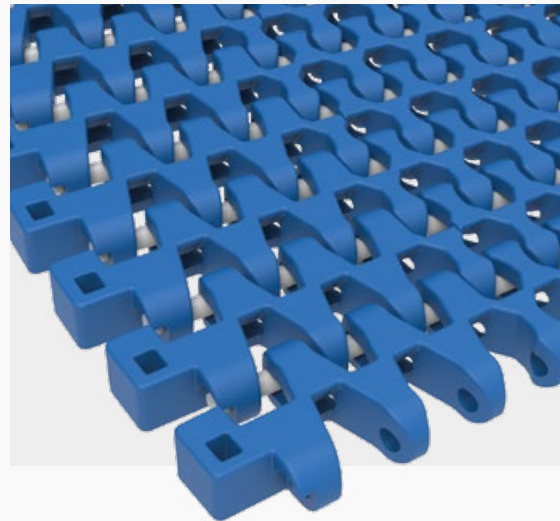


Description and Features

Description

Metal Detectable X-Ray POM
(Polyacetal resin with additives)

It ensures higher detection efficiency in different processing environments, with specific additives that further improve wear resistance.



Colour: Blue
Primary Components: POM



Specks and color swirls may occur in products made in MDX but do not affect performance.

Note: Material properties and performance of final product are subject to variation according to operating conditions, e.g. environmental conditions, chemicals, cleanliness.

Physical properties

	Value	Unit
Specific Gravity	1480	kg/m ³
Melt Index	8.5	cm ³ /10min
Water Absorption (23°C, H ₂ O, 24hr)	0.2	%

Mechanical properties

	Reference	Value	Unit
Tensile modulus	ISO 527-1/-2	2800	MPa
Tensile stress at yield, 50mm/min	ISO 527-1/-2	58	MPa
Tensile strain at yield, 50mm/min	ISO 527-1/-2	9.5	%
Flexural modulus	ISO 178	2700	MPa
Charpy impact strength, 23°C	ISO 179/1eU	95	kJ/m ²
Charpy notched impact strength, 23°C	ISO 179/1eA	4.5	kJ/m ²
Charpy notched impact strength, -30°C	ISO 179/1eA	4.4	kJ/m ²
Poisson's ratio	-	0.37[C]	-

Thermal properties

	Value	Unit
Melting point	166	°C
Heat Deflection Temperature (1.8 MPa)	97	°C

Electrical properties

	Value	Unit
Volume Resistivity	1 x 10 ¹²	Ω-cm
Surface Resistivity	1 x 10 ¹³	Ω

Movex[®]

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