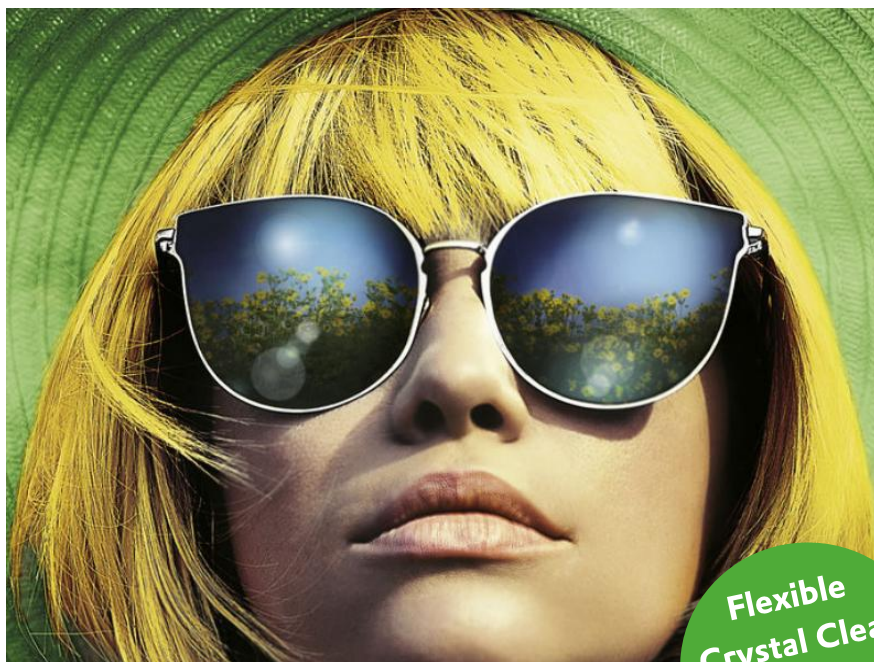


TROGAMID® eCO myCX BC100

A clear choice for the environment.



High powered style meets sustainability.

In a world where ecological choices matter, Evonik leads the way in products that embody both performance and responsibility. Crafted with 100% green energy, our products ensure that premium style and design freedom don't come at the expense of the planet.

Make a bold statement while keeping an eye on the future. Choose Evonik eCO products for creating eyewear that reflects your unique style and a sustainable vision for tomorrow.

TROGAMID® eCO myCX BC100

Flexible
Crystal Clear
Lightweight
Durable



High-quality eyewear material with a clear sustainable future

Our mass balance production approach reduces environmental impact while retaining superior mechanical properties. With transparency of 92% and superior chemical resistance, **TROGAMID® eCO myCX BC100 will deliver maximum design freedom and assure long-term durability of your products.**

- 100% reduction of fossil feedstock through a mass-balance approach
- 100% sustainable energy used in production



Scan to learn more about our mass balance approach.

Unmatched light transmission for products that catch the eye

TROGAMID® eCO myCX BC100 is a transparent polyamide for the manufacture of injection molded parts. It is supplied as cylindrical pellets in polyethylene packaging.

For injection molding, processing temperatures between 280 °C and 300 °C are recommended. Mold temperature should be within a range of 60 °C to 80 °C. It is recommended to dry the material in a dry-air dryer at a temperature of 80 °C to 90 °C for 8-12 hours before use. Pigmentation may affect property values.

Physical properties

Mechanical Properties ISO	Dry / Cond	Unit	Test Standard
Tensile modulus	1480 / 1490	MPa	ISO 527
Yield stress	49 / 63	MPa	ISO 527
Yield strain	8 / 7	%	ISO 527
Nominal strain at break, ϵ_B	180 / 185	%	ISO 527
Charpy notched impact strength, +23°C Type of failure	11 / 12 C / C	kJ/m ² –	ISO 179/1eA –
Charpy notched impact strength, –30°C Type of failure	11 / 12 C / C	kJ/m ² –	ISO 179/1eA –
Flexural modulus, 23°C	1460 / 1500	MPa	ISO 178
Flexural stress at conv. deflection, 23°C	52 / 54	MPa	ISO 178
Flexural strain at flexural strength, 23°C	8 / 8	%	ISO 178

Characteristics	Value	Unit	Test Standard
Density	1020	kg/m ³	ASTM D 792
Food contact	10 / 2011		EC

Optical Properties	Value	Unit	Test Standard
Haze	2.1	%	ASTM D 1003
Haze thickness tested	2	mm	–
Light Transmittance	92	%	ASTM D 1003
Light transmittance thickness tested	2	mm	ASTM D 1003

LCA Values (available on request)	Dry	Unit	Test Standard
LCA Name of Certificate	TROGAMID® eCO myCX BC100	–	ISO 14040, 14044
LCA Certifier	TÜV Rheinland	–	ISO 14040, 14044
Blue water consumption	30.0	kg	ISO 14040, 14044



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