

TROGAMID® eCO Impact 75

Impact everything.



Chemically
Resistant
Lightweight
Ultra Strong

**High impact performance
with unparalleled clarity
and chemical resistance.**

The ecological impact of our choices compels all of us to prioritize sustainable options – from our eyewear to our equipment, and all the items in between that support personal protection and security. Evonik offers products that not only perform, but have an eye on the future.

TROGAMID® eCO Impact 75



A sustainable solution that makes a strong & clear statement.

Our mass balance production approach reduces environmental impact – but not mechanical properties. With transparency of 88 percent and superior chemical resistance, plus excellent impact crack & break resistance, you can be sure that **TROGAMID® eCO Impact 75 will deliver long-term durability and assure safety in your products.**

- 30% reduction of fossil resources



Scan to learn more about our mass balance approach.

Unmatched light transmission and impact resistance for active lifestyle products

TROGAMID® eCO Impact 75 is an impact-modified 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	Value	Unit	Test Standard
Tensile modulus	160000	psi	ISO 527
Yield stress	6530	psi	ISO 527
Yield strain	7.5	%	ISO 527
Strain at break, ϵ_B	>50	%	ISO 527
Charpy notched impact strength, +23°C Type of failure	38.5 P	ftlb/in ² –	ISO 179/1eA –
Charpy notched impact strength, -30°C Type of failure	14.7 C	ftlb/in ² –	ISO 179/1eA –
Flexural modulus, 23°C	168000	psi	ISO 178
Flexural stress at conv. deflection, 23°C	5950	psi	ISO 178
Flexural strain at flexural strength, 23°C	3.5	%	ISO 178
Mechanical Properties ASTM	Value	Unit	Test Standard
Izod notched impact strength, 23°C, A Type of failure	16 P	ftlb/in –	ASTM D 256 A –
Izod notched impact strength, -30°C, A Type of failure	14 P(C)	ftlb/in –	ASTM D 256 A –
Optical Properties	Value	Unit	Test Standard
Color L	95	–	CIE
Color a	-0.5	–	CIE
Color b	2	–	CIE
Haze Haze thickness tested	9 0.0787	% in	ASTM D 1003 –
Light Transmittance Light transmittance thickness tested	88 0.0787	% in	ASTM D 1003 ASTM D 1003



trogamid.com

plastics-database.com

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. Evonik disclaims all representations and warranties whether express or implied, and shall have no liability for, merchantability of the product or its fitness for a particular purpose (even if Evonik is aware of such purpose), or otherwise. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by the other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

TROGAMID® is a registered trademark of Evonik Industries AG or one of its subsidiaries