



E-GO™ in Polypropylene

MITO® Material Solutions' flagship product, E-GO, has been designed with versatility, realistic solutions, and accessibility in mind. E-GO is a hybridized graphene oxide/POSS additive which reactively disperses while resisting agglomeration -- unlocking the properties of graphene for various industries by utilizing both thermoset and thermoplastic polymer composites. With a MITO Powered™ polypropylene, you can create an engineered plastic with a higher amount of recycled content that outperforms competitors.

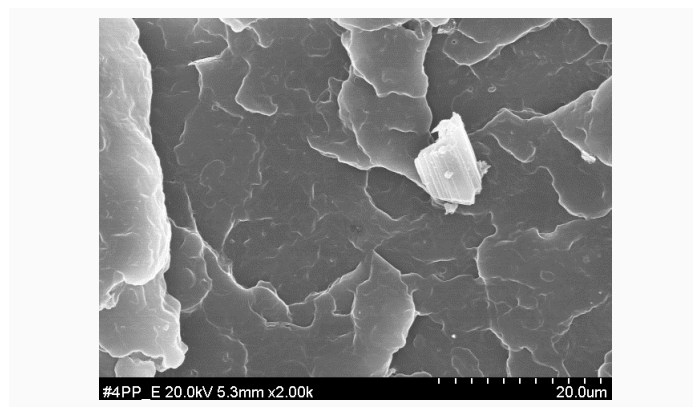
DISPERSION & INTEGRATION

E-GO has been designed to seamlessly integrate into your manufacturing method - from beginning to end - without introducing processing difficulties.

- Compounding
- Injection molding
- Blow molding
- SLA/FDM

Simply measure and mix as normal **at loadings as low as 0.1%** by weight of polymer.

SEM 2000X MAG | E-GO PARTICLE WITHIN PP



COLLABORATION

EXPLORE

We want to work with you and know your story. MITO partners with a variety of industries interested in enhancing material performance. In order for us to help, we need to understand your current materials, processes, and goals so we can recommend the best MITO solution for your needs.

EVALUATE

Once we establish the benchmarks in your polymer system, MITO can create samples and deliver a custom data set showing a direct comparison. If preferred, our team can also work directly with your team at your facility.

COLLABORATE

MITO solutions are designed to integrate into the base polymer – before part production – and can be distributed commercially via direct sales or by distributing through your polymer supplier/compounder. This ensures seamless integration into your supply chain without added time or process interruption.

OUTPERFORM YOUR COMPETITORS WITH THE NEXT GENERATION MATERIALS



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TESTING METHOD	PROPERTY	UNITS	NEAT	0.1%wt E-GO	% DIFFERENCE
TENSILE ASTM D638	Maximum force withstood	kN	21.60	30.90	35%
	Modulus at break	MPa	1470	1680	13%
	Strain at break	%	27.89	5.18	-137%
FLEXURAL ASTM D790	Maximum force withstood	kN	0.06	0.07	15%
	Modulus at break	MPa	1095	1183	8%
	Strain at break	%	2.18	2.25	3%
COMPRESSION	Maximum force withstood	kN	-	-	-
	Modulus at break	MPa	-	-	-
	Strain at break	%	-	-	-
IMPACT	Izod impact resistance	J / m	-	-	-
FRACTURE TOUGHNESS	G _{IC}	kJ / m ²	-	-	-
DYNAMIC MECHANICAL ASTM D7028	Storage modulus	MPa	2420	2520	4%
	Viscous modulus	MPa	-	-	-
	Dampening coefficient		-	-	-
GLASS TRANSITION TEMP	T _G	°C	15.81	16.67	5%
ELECTRICAL RESISTIVITY ASTM D257	Resistivity through plane	Ohm · m	1.80E+14	2.00E+11	-200%
	Resistivity in plane	Ohm · m	-	-	-

** All tests were conducted according to ASTM standards.*

***Samples: SABIC 595a via injection molding*

Not seeing a property you need? Contact MITO with any inquiries and our highly trained team will work with you and your engineers to design a study with your specific material requirements in mind.