

AN ADDITIVE FOR THE RECYCLING REVOLUTION

Rebirth Technology for Non-Recyclable Plastics

A multifunctional additive that transforms plastic waste into high-performance materials for a sustainable future.

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RAI GROUP
DUBAI, UAE



Global Reach
20+ Cities



Industry Expertise
35+ Years



Customer Trials
12+ in UAE



Commitment
Sustainable Future

WHAT IS THERPOL?

One Additive. Multiple Functions.



RECYCLING ENABLING AGENT

Rebirth Technology for a Circular Future

Therpol increases recycled content, improves material quality, and enables mixed polymer amalgamation for a truly circular economy.

[Learn More](#)



KEY BENEFITS

Unlock Higher Value from Recycled Materials



Improve Recycled Resin Quality

Enhances physical properties and delivers performance closer to virgin-grade materials.



Increase Recyclate Percentage

Enables higher recycled content in formulations without compromising performance.



Amalgamate Mixed Polymers

Acts as an effective agent to compatibilize and unify different polymer streams.

One Technology. Multiple Applications.



Versatile performance across your entire production value chain.

TECHNICAL ADVANTAGES

Engineered for Superior Performance



AMALGAMATING AGENT

From Mixed Plastics to Better Materials



Therpol unifies incompatible polymers to deliver consistent, more performant, high-performance outcomes.

SUSTAINABILITY

Closing the Loop on Polymer Performance

Therpol supports a circular economy by transforming plastic waste into valuable resources, reducing environmental impact and building a better tomorrow.

TECHNICAL SPECIFICATIONS

Proven Properties. Reliable Performance.

Density	MFI	Tensile Strength	Elongation at Break	Hardness
0.920 ± 0.05 g/cm ³	2.28 g/10 min	5.96 MPa	1000%	65 Shore A

[Download Technical Data Sheet](#)

TRUST & VALIDATION

Trusted by Industry. Backed by Expertise.



12+
Customer Trials in UAE



Potential and Real-time Solutions backed by data analytics



Developed by **Propriotec**
Origin of Therpol Technology



Preliminary Deal with **Adidas**
For sustainable material applications

Ready for the Next Generation of Recycling?

Partner with Therpol Plastic Trading LLC (RAI Group) and be part of the recycling revolution.

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