



GRAFT POLYMER
COMBINE INCOMPATIBLE

GRAFTAPOR™

2020



POROUS POLYMER CARRIER GRAFTAPOR™

The porous polymers act like sponges (**free-flowing granules**) capable to absorb different types of additives into a porous polymer.

No chemicals or physicals blowing agents used, **absorption** rate up to **100% and more**.

LDPE, LLDPE, HDPE, PP, EVA, EBA, POE, PLA

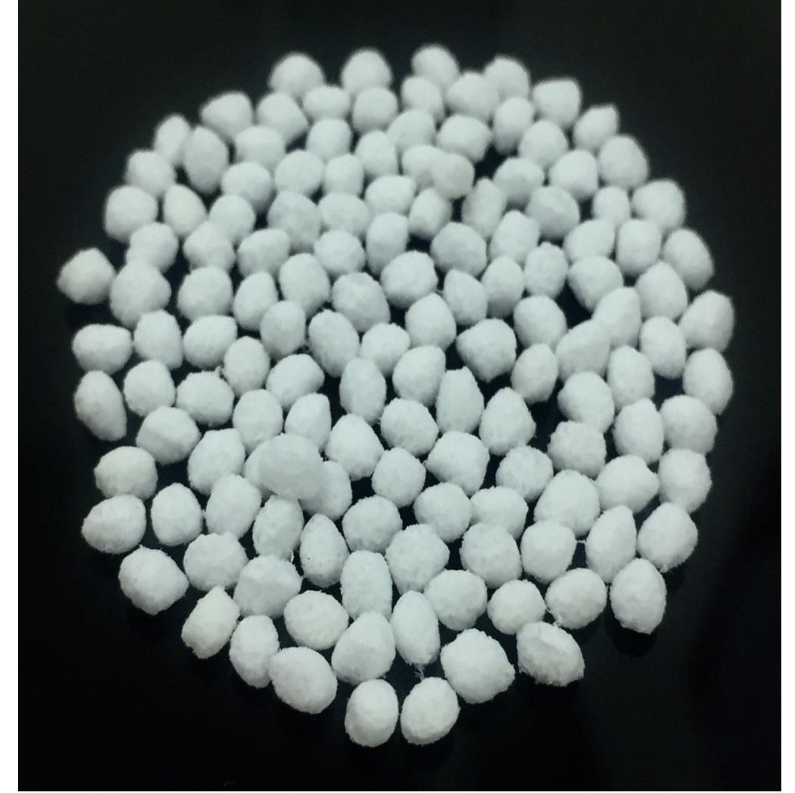
Markets

- Wire & Cable
- Packaging Films
- PE-Pipes
- Nonwovens
- Masterbatches
- Compounds

Applications

- Antioxidants
- Lubricants
- Enzymes
- Performance additives
- Silanes
- Peroxides

POROUS POLYMER CARRIER **GRAFTAPOR™**



WHAT MAKES GP UNIQUE



Use **proprietary co-agents** and **redox initiating system** for grafting



Use of **Nitroxide Mediated Polymerization** for controlled grafting reactions



Co-continuous nano-morphology approach for creation polymeric alloys



Interpenetrating Polymer Networks (IPN)



Thermo-Reversible Crosslinking polymers and **Vitrimers**



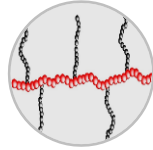
Smart Polymers
Self-Healing polymers



In-house synthesis of unique "**nitroxide stable radicals**" (TEMPO) for high-tech composite materials – proprietary process

BUSINESS MODEL: INNOVATIONS

GRAFT / BLOCK POLYMERS



POLYMERIC NANO ALLOYS



CROSSLINKING



POROUS



SYNTHESIS

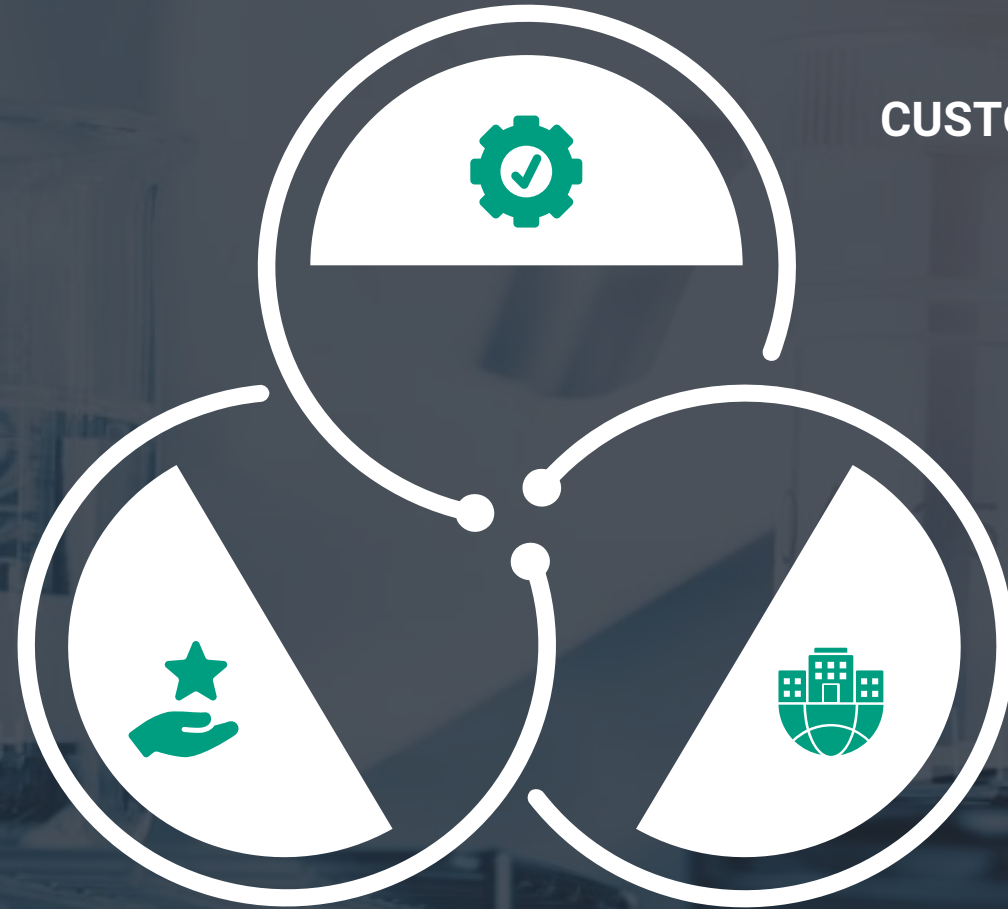


INNOVATIVE TECHNOLOGIES

- Flow induced crystallization
- Solid Phase Grafting
- Solution Grafting
- Fillers Treatments
- Powders Hybridization
- Hot ozonolysis/plasma modification
- Nitroxide Mediated Polymerization
- Micro/Nano Porous polymer carries

To support its unique modification technologies, GP has built the **R&D** center including **Laboratory** and **Synthesis facilities**

BUSINESS MODEL: FLEXIBILITY



CUSTOM MADE products

Prompt reacting on
Market HOT SECTORS
requirements

Fast production
SCALE-UP



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THANK YOU

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