

RESIN COMPOUNDS

ULTRA-HIGH PERFORMANCE THERMOPLASTIC RESINS FROM THE TECHNOLOGY LEADER

Polymics, Ltd. is the world's premier source for ultra-high performance thermoplastic resin compounds. No other company can match our technical knowledge, experience, and manufacturing capabilities for these specialty materials. While other compounders emphasize the wide number of different base resins they work with, at Polymics we pride ourselves in being the absolute best at a very limited number of very high performance materials.

Polymics, Ltd. offers premium performance thermoplastic materials like PEI, PPS, PEEK, and PEKK in both standard (see reverse side) and customer specified custom formulations. In addition, Polymics' superior technical knowledge allows us to work with product designers to create new and unique formulations that will provide the optimum performance in their application. No matter what your application requires: wear resistance, chemical resistance, lubricity, conductivity or all of these and more, bring us your toughest problems – Polymics is up to the challenge!



ULTRA-HIGH PERFORMANCE POLYMERS POLYMICS OFFERS EXPERTISE IN:

- Polyimides (Ultem® PEI, PAI, and PI)
- Polyarylktones (PEEK, PEKK, PEK, and Blends)
- Polyphenylene Sulfide (PPS)
- Polysulfones (PSU, PES, and PPSU)

THE FILLERS AND REINFORCEMENTS POLYMICS UTILIZES:

- Glass Powders, Fibers, Spheres, and Beads
- Carbon Powders, Fibers, and Nano-Fibers
- Lubricants including PTFE, Silicones, MoS₂, and Graphite
- Conductive fillers: Carbon, Stainless Steel, and Inherently Dissipative Polymers (IDPs)
- Custom Colors

Polymics is also the leader in reprocessing ultra-high performance thermoplastic resins. Our reprocessed grades have been granulated, melt filtered, and then re-pelletized under the tightest quality control standards. For cost sensitive applications, these products offer an effective alternative to virgin materials.

Polymics, Ltd. is the world's premier developer and manufacturer of ultra-high performance engineering plastics for an infinite variety of engineered end uses. We are a technology focused company that offers a truly unique combination of expertise in product development, application engineering, and innovative polymer processing. Polymics' capabilities include the synthesis and polymerization of custom materials, material testing, resin compounding, compression molding, injection molding, and fabrication of finished components. Polymics, Ltd. has the expertise and manufacturing capabilities to provide end users with one stop "problem to finished part" solutions. Polymics, Ltd. offers its products to customers in the western hemisphere through its sales and manufacturing location in State College, PA and to customers in Asia/Pacific through its Applied Polymer Materials, Inc. subsidiary near Taipei, Taiwan.



Polymics, Ltd.

High Performance Polymers & Compounds

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STANDARD THERMOPLASTIC RESIN COMPOUNDS FROM POLYMICS, LTD.

PEKK PLUS® (PEKK/POLYIMIDE BLENDS) COMPOUNDS

Pyramid® KK 2000	Unfilled PEKK PLUS®
Pyramid® KK 2150	30% Glass Fiber reinforced PEKK PLUS®
Pyramid® KK 2250	30% Carbon Fiber reinforced PEKK PLUS®
Pyramid® KK 2219	Wear Grade PEKK PLUS®

PYRAMID® POLYETHERKETONEKETONE (PEKK) COMPOUNDS

Pyramid® KA 2000	Unfilled Amorphous PEKK
Pyramid® KC 2000	Unfilled Crystalline PEKK
Pyramid® KC 1500	PTFE lubricated Crystalline PEKK
Pyramid® KC 1510	PTFE lubricated Crystalline PEKK – Very Low Coefficient of Friction
Pyramid® KC 2150	30% Glass Fiber reinforced Crystalline PEKK
Pyramid® KC 2250	30% Carbon Fiber reinforced Crystalline PEKK
Pyramid® KC 2219	Wear Grade Crystalline PEKK

PYRAMID® POLYETHERETHERKETONE (PEEK) COMPOUNDS

Pyramid® KD 2000 VHF	Unfilled Virgin PEEK – High Flow
Pyramid® KD 2000 VEG	Unfilled Virgin PEEK – Extrusion Grade
Pyramid® KD 2000 RHF	Unfilled Reprocessed PEEK - High Flow Grade
Pyramid® KD 2000 REG	Unfilled Reprocessed PEEK - Extrusion Grade
Pyramid® KD 2150	30% Glass Fiber reinforced PEEK
Pyramid® KD 2250	30% Carbon Fiber reinforced PEEK
Pyramid® KD 2219	Wear Grade PEEK
Pyramid® CC 150	Highly Reinforced, Randomly Oriented, Long Carbon Fiber PEEK

PYRAMID® POLYETHER-IMIDE (PEI⁽²⁾) COMPOUNDS

Pyramid® II 2000 VEG	Unfilled Virgin PEI - Extrusion Grade
Pyramid® II 2000 REG	Unfilled Reprocessed PEI - Extrusion Grade
Pyramid® II 2150	30% Glass Fiber reinforced PEI ⁽³⁾
Pyramid® II 2220	Electro-Static Dissipative (ESD) PEI (10 ⁶ -10 ⁹ ohm-sq.)
Pyramid® II 2250	30% Carbon Fiber reinforced PEI

PYRAMID® POLYPHENYLENE SULFIDE (PPS) COMPOUNDS

Pyramid® SE 2250	30% Carbon Fiber reinforced PPS
Pyramid® SE 2219	Wear Grade PPS
Pyramid® SE 2520	PTFE lubricated PPS

PYRAMID® SC POLYPHENYLSULFONE (PPSU⁽⁴⁾) COMPOUNDS

Pyramid® SC 2250	30% Carbon Fiber reinforced PPSU
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(1) All grades are available in black color.

(2) PEI is commonly referred to by the tradename Ultem®

(3) PEI with glass filler levels from 5% – 40% are also available as standard product.

(4) PPSU is commonly referred to by the tradename Radel®

The materials shown here are standard commercial products offered by Polymics, Ltd. Polymics has the experience and capability to compound custom materials from an infinite range of thermoplastic resins and fillers. Please contact Polymics customer service with any questions or inquiries that you may have for materials not shown here.

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