

CAPABILITY OVERVIEW

CONCEPT TO SOLUTION®

Polymics, Ltd. is the world's premier developer and manufacturer of ultra-high performance engineering polymers for an infinite variety of engineered end uses. We are technology-focused company that offers a truly unique combination of expertise in product development, application engineering, and innovative polymer processing. Our products and services include the custom synthesis and polymerization of new materials (Arylmax® polymers), specialty compounding and formulation (Pyramid® compounds), material testing, compression, injection, extrusion and other proprietary molding as well as fabrication of custom prototype & production components.

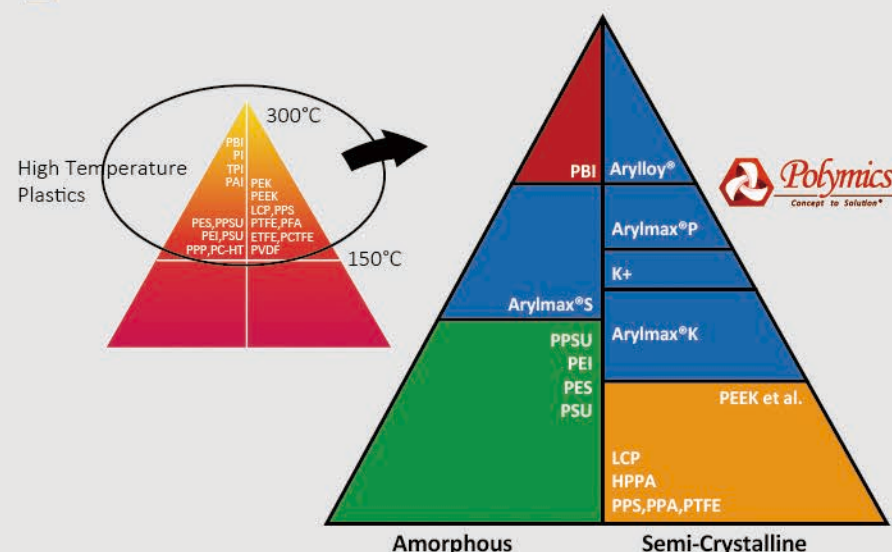
COMPETITIVE EDGE

COST
TIME
QUALITY
TRACEABILITY
RESPONSIBILITY
COMMUNICATION
EXPERIENCE
EXPERTISE
INNOVATIONS

VERTICAL INTEGRATION



HIGH TEMPERATURE THERMOPLASTIC



MATERIAL PLATFORM OFFERED BY POLYMICS

Polybenzimidazole	PBI(U) PBI/PEEK(T) PBI/PEKK(TK) PBI/PAEK(TP)	Polyphenylene	PPS
Polyimides	PI TPI PAI PEI	Fluoropolymers	ETFE ECTFE FEP PFA PVDF PTFE
Polyaryletherketones	PEEK PEK PEKK PEKK PAEK	Specialty Compounds	Statimax Sealmax Eduramax Thermomax Structomax OrthoPEEK
Polyarylsulfones	PES PPSU PSU		

MONOMER TO PART

Material Recommendation
Polymer & Part Design
Compounding
CAM
Casting
Extrusion
Compression Molding
Injection Molding
Fabrication
Assembly
Testing
Inventory Shapes and Parts

CAPABILITY OVERVIEW

PROCESSES OFFERED BY POLYMICS

CENTRIFUGALLY ASSISTED MOLDING (CAM™)

CAM is a proprietary process developed by Polymics to provide stock shapes that cannot be otherwise produced economically and effectively.

COMPRESSION MOLDING & DIRECT FORMING (HCM)

Compression molding by Polymics provides the best capability on almost any thermoplastics and thermosets for a wide range of tooling sizes. Extreme temperature Celazole® PBI materials can only be molded with such a technique.

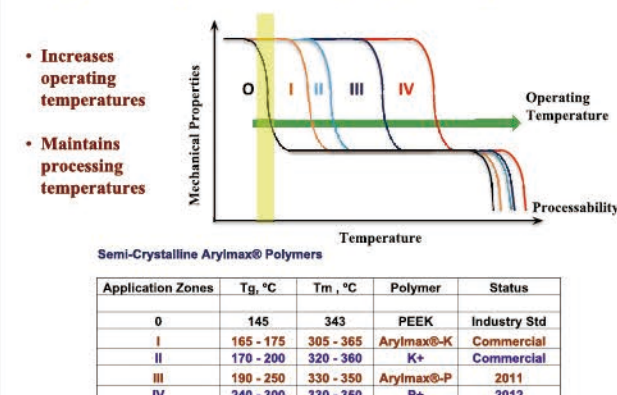
INJECTION MOLDING (INJ)

Specialty injection molding offered by Polymics focuses on both standard stock shapes such as tubes, rods, plates and unique near nets for a wide range of industrial applications. This is a critical tool for engineer to bridge the gap between prototyping and production tools instead of using different process that may not be representative once a part is commercialized.

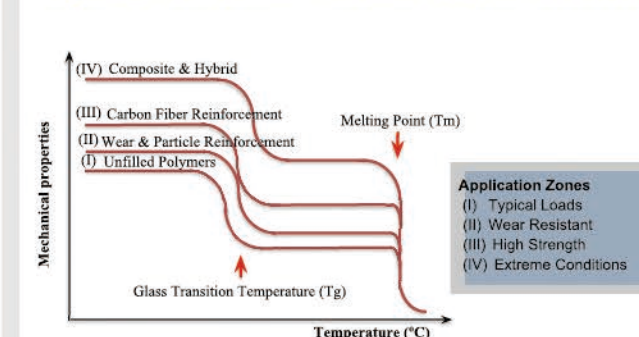
EXTRUSION (EXT)

Polymics' extrusion process offers stock shapes, such as tubes, rods, plates and thin sheets for both prototyping and commercial applications. We cover a wide range of standard and specialty material in the high performance polymers and compounds.

Arylmax® Polymers – New High Tg PAEK System



Arylmax® Compounds – Versatile PEEK-like Processes



OTHER CAPABILITIES

Resin Melt
Filtration And
Certified Reclaim
Processes

Powder Grinding
To 150 Mesh

Finishing Operations
Including Inserts,
Bonding, And
Assembly

Plastic Coating
Of Metal
Components

In-House Iso/Astm
Physical Property
Testing With Material
Analysis Including
Dsc/Tga/Dma

SUMMARY

Polymics, Ltd. is the only company in the world that has the expertise and manufacturing capabilities to take customers from high performance thermoplastic material development to final part molding and assembly. Our in-house engineering staff provides our customers with true one-stop "Problem to Finished Part Solutions" by working on their individual problem from start to finish. Because of our vertically integrated supply chain, we have a full range of capabilities, including material development, resin compounding, polymer conversion, component finishing and fabrication, and even physical property testing.