



Polymics, Ltd.

Concept to Solution®

COMPRESSION MOLDING

Hot Compression Molded Shapes manufactured by Polymics, Ltd. provide engineers and machinists with the quality and performance required for the most demanding applications. Polymics, Ltd. is currently compression molding **Plates, Rods, Tubes, Discs, and Near-Net Shapes** in both standard materials and customer-specified custom formulations.

Compression Molding is among the most economical of options for High Performance Materials because it offers a wide range of near-net sizes and produces materials with **low minimum order quantities**. As a result, users can buy the exact amount of material needed without having to pay additional charges for tooling or small run set-ups.

Polymics' Standard Compression Molded Polymers

Polyketones (PEEK and PEKK)

Pyramid™ PEEK	Unfilled, Glass-Filled, Carbon-Filled, and Wear Grade PEEK
Pyramid™ CC PEEK	Highly Reinforced Woven Carbon Fiber Cloth Reinforced and Highly Reinforced Randomly Oriented, Long Carbon Fiber PEEK
Pyramid™ PEKK	Amorphous, Unfilled, Glass-Filled, Carbon-Filled, PTFE-Lubricated, and Wear Grade PEKK

Celazole® U-Series (PBI) and T-Series (PEEK/PBI Blends)

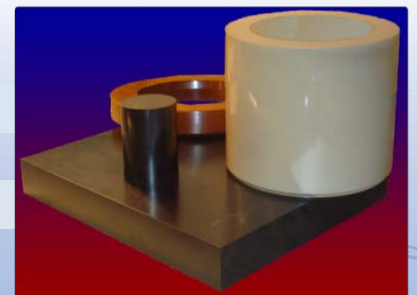
U-Series	Unfilled, Carbon-Fiber, ESD, and Increased Machinability PBI
T-Series	Unfilled, Carbon-Fiber, Glass-Fiber, and Self-Lubricating Blends

Other Polyimides (PI and PEI)

Pyramid™ PI	Unfilled and Graphite-Lubricated PI
Ultem® PEI	Unfilled, Glass-Filled, and Carbon-Filled PEI



Other Standard Materials (PPS, PPSU, PBT, PSU)

Pyramid™ PPS	Unfilled and Wear Grade PPS
Pyramid™ PPSU	Unfilled and Glass-Filled PPSU
Valox® PBT	30% Glass-Fiber PBT
PSU	Unfilled PSU





Polymics' Standard Thermoplastic Sizes/Shapes

Plates –



-  5.0"x10.0", 10.0"x10.0", 12.0"x12.0", 15.0"x10.5", 18.0"x12.0", 24.0"x12.0"
-  Thicknesses from 0.25" to 2.0"

Rods –





Compression Molded

-  Diameters from 2.0" to 8.0"
-  Lengths from 0.25" to 6.0"


Machined From Compression Molded Plate

-  Diameters up to 2.0"
-  Lengths up to 24.0" (17.7" for PBI)

Tubes –

-  Outer Diameters (OD) from 3.0" to 9.0" in Lengths of 3.0" to 6.0" with Wall Thicknesses up to 3.0"
-  Outer Diameters (OD) of 10.0" to 14.2" in Lengths of 5.0" to 6.0" with Wall Thicknesses up to 2.5"
-  Outer Diameter (OD) of 15.125" in Lengths from 0.5" to 1.5" with a Wall Thickness of 0.5"
-  Outer Diameter (OD) of 16.5" in Lengths of 5.0" with a Wall Thickness of 1.0"

Discs –

-  Outer Diameters (OD) from 4.0" to 15.0" in Wall Thicknesses up to 3.0"

*Size and shape capabilities of individual materials may vary. Contact Polymics, Ltd. for details. Custom materials/sizes also available.



Polymics' Standard Polyimide (PI) Sizes/Shapes

Plates –



-  12.0" x 6.0" in Thicknesses from 0.25" to 1.5"

Rods –




Compression Molded

-  Diameters from 2.0" to 4.0"
-  Lengths from 0.25" to 3.0"


Machined From Compression Molded Plate

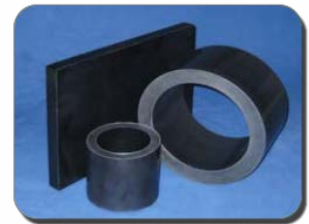
-  Diameters up to 1.5"
-  Lengths up to 12.0"

Tubes –

-  Outer Diameters (OD) from 3.0" to 5.0" in Lengths of 3.0" with Wall Thicknesses up to 1.75"
-  Outer Diameters (OD) of 10.25" in Lengths of 0.5" to 1.1" with Wall Thicknesses up to 2.6"
-  Outer Diameter (OD) of 15.125" in Lengths from 0.5" to 1.0" with a Wall Thickness of 0.5"

Discs –

-  Outer Diameters (OD) from 2.0" to 5.0" in Wall Thicknesses up to 2.0"



Visit Us at polymics.com for More Information!



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