

Quantum Polymers Featured In Plastics Distributor & Fabricator Magazine

Quanta™ PEKK High Performance Stock Shapes

Quanta™ PEKK (polyetherketoneketone) stock shapes of rod and plate are extruded by Quantum Polymers in Newark, DE from Kepstan® 8001 (unfilled) PEKK resin manufactured by ARKEMA.

PEKK is a member of the PAEK (polyaryletherketone) family of polymers that also includes PEEK, PEK, and PEKEKK. Polyaryletherketones have been described as the world's highest performing true thermoplastic polymers and PEKK is specifically unique as its crystallinity is tunable.



Quanta™ PEKK stock shapes offer additional benefits over PEEK in terms of higher tensile modulus and yield stress, higher compression modulus and higher compressive stress, and lower dry wear at elevated temperature. PEKK has higher T_g (glass transition temperature) and T_m (melt temperature) than PEEK. Properties shared with PEEK include excellent chemical resistance, toughness and fatigue resistance.

Industries served by PEKK include aerospace, oil and gas, and chemical processing. Quantum's PEKK stock shapes are hot air annealed for dimensional stability and low residual stress. Annealing is critical for ease of machining and final part surface smoothness. Quanta™ PEKK stock shapes are easily machined to tight tolerances and precise components.

Rods are available from 1/2" to 4" diameter. Plates are available from 3/8" to 3" thick in widths 12", 18" and 24" wide.

For more information, contact:

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