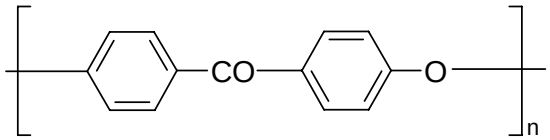
G-PAEK™

Product : Polyarylether Ketone

CAS No : 27380-27-4

Structure:



Availablity: As powder, granules, 20 and 30% glass filled and 20 and 30% carbon filled material.

Properties

Glass Transition Temperature °C	162
Melting Point Tm °C	372
Crystallinity %	>40
Tensile Strength MPa	>95
Tensile Modulus MPa	> 3800
Elongation at Break %	>5
Flexural Strength MPa	>180
Flexural Modulus MPa	>3800
Izod Impact Strength J / M (notched)	>45
Rockwell Hardness D - 785	114
HDT (1.84 MPa) in °C	264
Flammability UL 94 (0.8 mm thickness)	V – 0

APPLICATIONS OF G-PAEK™

G-PAEK™ combines high temperature stability, strength and stiffness and ease of processing. It is also chemically resistant and electrically insulating. It has excellent creep resistance and wear and radiation resistance. It has inherently low flammability.

Due to these characteristics it has applications in automotives, nuclear industry, electronic and electrical engineering, aircraft and aerospace industries and medical technology.

It is used for making

- gears, bushes, friction bearings, ball valve seals
- shafts and bearing for high load requirement
- ultra small precision rotational parts
- body implants
- wire and cable insulation

It is also used for coatings