

Mitsui AURUM® JCF3030 Polyimide, Carbon Fiber/PTFE Filled (discontinued **)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

AURUM JCF3030 is a high-performance polyimide for precision injection molded components and extruded products. A member of the AURUM family of advanced engineering resins, carbon fiber reinforced AURUM JCF3030 offers a unique balance of mechanical, thermal, and tribological properties for outstanding performance in demanding automotive, business machinery, industrial equipment, aerospace, and semiconductor equipment applications. AURUM components offer excellent mechanical strength and toughness, dimensional stability, low outgassing, and exceptional radiation resistance. In addition, AURUM exhibits outstanding resistance to hydraulic, automotive, and many industrial fluids and solvents, a low coefficient of thermal expansion, creep resistance, and flame retardancy. AURUM JCF3030 withstands high PV levels and provides a low wear factor and low friction surface over a broad temperature range in lubricated environments. Applications: AURUM JCF3030 components are excellent replacements for metals, ceramics, and other plastics. High performance AURUM parts include: thrust washers and oil seal rings for automotive and off road vehicle transmissions, thermal insulators and stripper fingers for high-speed copiers, jet engine components, check valve balls, spline couplings, heat-resistant gears, vanes, wear strips, and valve seats. Other AURUM applications include carriers for aluminum hard disks and silicon wafers, journal bearings, and bearing retainers. Information provided by DuPont

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsui-AURUM-JCF3030-Polyimide-Carbon-FiberPTFE-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hrs @ 73°F; ASTM D570
Moisture Absorption at Equilibrium	0.090 %	0.090 %	73°F; 60 RH, 24hrs
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 420 °C	@Load 4.76 lb, Temperature 788 °F	
	29 g/10 min	29 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 420 °C	@Load 22.0 lb, Temperature 788 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	170 MPa	24600 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	230 MPa	33300 psi	ASTM D790

Flexural Modulus Mechanical Properties	10.802 GPa Metric	1566.7 ksi English	ASTM D790 Comments
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	388 °C	730 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	246 °C	475 °F	ASTM D648
Glass Transition Temp, Tg	250 °C	482 °F	DSC

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