

Mitsui AURUM® JGN6230 Thermoplastic Polyimide Resin, Crystalline (discontinued **)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

AURUM® is an easy melt, processable and recyclable thermoplastic polyimide resin that provides continuous service temperatures to 465° F in its amorphous state and up to 550° F when annealed to its semicrystalline state. In addition, it displays low outgassing, superior radiation resistance and excellent chemical resistance properties. Applications: Components for automotive and aircraft engines Transmission Farming, off-road and construction equipment Industrial machinery Electric motors, pumps and compressors Business machines such as laser pointers and high speed copy machines Electronic and semiconductor transport media Analytical and medical equipment Conveyors and textile equipment Information provided by Mitsui.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsui-AURUM-JGN6230-Thermoplastic-Polyimide-Resin-Crystalline-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hours; ASTM D570
Moisture Absorption at Equilibrium	0.070 %	0.070 %	24 hours, 23°C, 60% RH
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	203 MPa	29400 psi	ASTM D638
Tensile Strength, Ultimate	137.3 MPa @Temperature 150 °C	19910 psi @Temperature 302 °F	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
	3.0 % @Temperature 150 °C	3.0 % @Temperature 302 °F	ASTM D638
Flexural Strength	293 MPa	42500 psi	ASTM D790
	201 MPa @Temperature 150 °C	29200 psi @Temperature 302 °F	ASTM D790
Flexural Modulus	10.4 GPa	1510 ksi	ASTM D790
	9.32 GPa @Temperature 150 °C	1350 ksi @Temperature 302 °F	ASTM D790
Izod Impact, Notched	0.883 J/cm	1.65 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	17.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 °C	9.44 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 °F	MD; ASTM D696
CTE, linear, Transverse to Flow	47.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 °C	26.1 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 °F	ASTM D696
Melting Point	388 °C	730 °F	
Maximum Service Temperature, Air	$\geq 260 \text{°C}$	$\geq 500 \text{°F}$	Heat distortion temperature, load unknown; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	390 - 420 °C	734 - 788 °F	Injection molding, extrusion

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