

Mitsui AURUM® JCN6230 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-JCN6230-Thermoplastic-Polyimide-Resin-Crystalline-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Water Absorption	0.17 %	0.17 %	24 hours; ASTM D570
Moisture Absorption at Equilibrium	0.080 %	0.080 %	24 hours, 23°C, 60% RH
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	107	107	ASTM D785
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength at Break	283.4 MPa	41100 psi	ASTM D638
Tensile Strength, Ultimate	211.8 MPa @Temperature 150 °C	30720 psi @Temperature 302 °F	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
	3.0 % @Temperature 150 °C	3.0 % @Temperature 302 °F	ASTM D638
Flexural Strength	395 MPa	57300 psi	ASTM D790
	314 MPa @Temperature 150 °C	45500 psi @Temperature 302 °F	ASTM D790
Flexural Modulus	21.9 GPa	3180 ksi	ASTM D790
	19.8 GPa	2870 ksi	

Mechanical Properties	Metric @ Temperature 150 °C	English @ Temperature 302 °F	ASTM D790 Comments
Izod Impact, Notched	0.883 J/cm	1.65 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 °C	3.33 $\mu\text{in}/\text{in}\cdot\text{°F}$ @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	>= 260 °C	>= 500 °F	Heat distortion temperature, load unknown; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 10000 ohm	1000 - 10000 ohm	ASTM D257

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

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