

## Mitsui AURUM® JCN6230 Thermoplastic Polyimide Resin, Amorphous (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-Amorphous-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Mitsui-AURUM-JCN6230-Thermoplastic-Polyimide-Resin-Amorphous-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.24 %	0.24 %	24 hours; ASTM D570
Moisture Absorption at Equilibrium	0.10 %	0.10 %	24 hours, 23°C, 60% RH
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	100	100	ASTM D785
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength at Break	249.1 MPa	36130 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	356 MPa	51600 psi	ASTM D790
Flexural Modulus	20.4 GPa	2960 ksi	ASTM D790
Izod Impact, Notched	1.18 J/cm	2.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 µm/m-°C	3.33 µin/in-°F	MD; ASTM D696
	@Temperature 23.0 °C	@Temperature 73.4 °F	
CTE, linear, Transverse to Flow	47.0 µm/m-°C	26.1 µin/in-°F	ASTM D696
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	0.4883 W/m-K Metric	3.383 BTU-in/hr-ft <sup>2</sup> -°F English	Comments
Melting Point	388 °C	730 °F	
Maximum Service Temperature, Air	240 °C	464 °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

## Contact Songhan Plastic Technology Co.,Ltd.

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