

Mitsui AURUM® JGN6230 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-JGN6230-Thermoplastic-Polyimide-Resin-Amorphous-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Water Absorption	0.21 %	0.21 %	24 hours; ASTM D570
Moisture Absorption at Equilibrium	0.090 %	0.090 %	24 hours, 23°C, 60% RH
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	173.6 MPa	25180 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	253 MPa	36700 psi	ASTM D790
	167 MPa @Temperature 150 °C	24200 psi @Temperature 302 °F	ASTM D790
Flexural Modulus	9.32 GPa	1350 ksi	ASTM D790
	6.96 GPa @Temperature 150 °C	1010 ksi @Temperature 302 °F	ASTM D790
Izod Impact, Notched	1.27 J/cm	2.39 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 µm/m-°C @Temperature 23.0 °C	8.33 µin/in-°F @Temperature 73.4 °F	MD; ASTM D696

Thermal Properties	Metric	English	Comments
Thermal Coefficient of Flow	50.0 $\mu\text{m}/\text{m}\cdot\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Thermal Conductivity	0.349 W/m-K	2.41 BTU-in/hr-ft ² -°F	
Melting Point	388 °C	730 °F	

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

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