

AURUM™ J-3124

Thermoplastic Polyimide

AURUM™ J-3124 is Organic filler reinforced and PTFE lubricated grade.

This grade is suitable for wear resistant applications.

General Properties	Typical value	Unit	Test method
Specific gravity	1.43	-	ASTM D792
MFR, 420°C-2.16kgf	11	g/10min	ASTM D1238
Mold shrinkage (MD/TD)	-	%	Mitsui chemical method

Mechanical Properties	Typical value	Unit	Test method
Tensile strength	70	MPa	ASTM D638
Elongation at brake	4	%	ASTM D638
Flexural strength	110	MPa	ASTM D790
Flexural modulus	3	GPa	ASTM D790
Izod impact strength	45	J/m	ASTM D256

Thermal properties	Typical value	Unit	Test method
HDT	230	°C	ASTM D648
CLTE (MD/TD)	-	10 ⁻⁵ /°C	ASTM D696

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Injection molding condition

Drying temperature	200	°C
Drying time	> 5	h
Temperature setting	80	°C
Cylinder 1	390-400	°C
Cylinder 2	400-410	°C
Cylinder 3	400-410	°C
Nozzle Temperature	400-410	°C
Mold Temperature	180-200	°C