

AURUM™ JRF3012

Thermoplastic Polyimide Compound

AURUM™ JRF3012 is PTFE and graphite filled polyimide.

This grade is suitable for wear resistant applications, especially for sealing rings of hydraulic cylinders of construction machines..

General Properties	Typical value	Unit	Test method
Specific gravity	1.38	-	ASTM D792
MFR, 400°C-2.16kgf	10	g/10min	ASTM D1238
Mold shrinkage (MD/TD)	0.8/ 1.0	%	Mitsui chemical method

Mechanical Properties	Typical value	Unit	Test method
Tensile strength	70	MPa	ASTM D638
Elongation at brake	15	%	ASTM D638
Flexural strength	120	MPa	ASTM D790
Flexural modulus	3	GPa	ASTM D790
Izod impact strength	70	J/m	ASTM D256

Thermal properties	Typical value	Unit	Test method
HDT	227	°C	ASTM D648
CLTE (MD/TD)	4.5 / 4.8	10 ⁻⁵ /°C	ASTM D696

AURUMTM JRF3012

Thermoplastic Polyimide Compound

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