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Kadam[®] Datasheet for MIM 4J29

	produc	e 4J29 k	ovar sinter	ing parts	5.				
Product Standard	Item			Unit		Specificatio	n Test	Test method	
	Melt flow index (MFI			g/10	min	1000±500) IS	ISO1133	
	Gre	density	g/ci	m ³	5.68±0.03	3 IS(ISO3369		
	Si	ensity	g/ci		>7.8	IS	ISO3369		
Powder Composition (wt%)	С	Mn	Ni	Со	Cu	0	Si	Fe	
	<0.03	<0.50	28~30	16~18	<0.15	<0.35	<0.20	Bal.	
	Ultimate	e tensile s	ic debindir strength	ig syster	п.			≥450MPa	
Typical Characteristics				ig syster	п.			≥450MP	
	Ultimate Yield str	e tensile s rength		ıg syster	11.			≥240MP	
	Ultimate Yield str Elongati	e tensile s rength ion	strength					≥240MP ≥209	
	Ultimate Yield str Elongati Over siz	e tensile s rength ion ze factor (strength (OSF)*	1.15	50±0.003	3 (Sinterin		≥240MP ≥209 7.9-1280℃	
	Ultimate Yield str Elongati Over siz *The har	e tensile s rength ion ze factor (dness of h	strength (OSF)* neat treatme	1.15 ent and c	50±0.003 over size	3 (Sintering factor (OSF rature) for re	⁼) are relat	≥240MP ≥209 7.9-1280℃ red to custo	
After Sintering	Ultimate Yield str Elongati Over siz *The har	e tensile s rength ion ze factor (rdness of h conditions (strength (OSF)* neat treatme	1.1t ent and c he sinterin	50±0.003 over size	factor (OSF	⁼) are relat	≥240MP ≥209 7.9-1280° red to custo ily.	
After Sintering	Ultimate Yield str Elongati Over siz *The har process o	e tensile s rength ion ze factor (dness of h conditions (strength (OSF)* neat treatmo (Especially t	1.15 ent and c he sinterin e 1 Z	50±0.003 over size ng tempe	factor (OSF rature) for re	 are relat eference on 	≥240MP ≥209 7.9-1280° red to custo ily.	
After Sintering	Ultimate Yield str Elongati Over siz *The har process o	e tensile s rength ion ze factor (dness of h conditions (strength (OSF)* neat treatme (Especially t Zone 180	1.15 ent and c he sinterin e 1 Z	50±0.003 over size ng tempe	factor (OSF rature) for re Zone 3 190°C	⁻⁾ are relat	≥240MP ≥209 7.9-1280° red to custo ily.	
After Sintering	Ultimate Yield str Elongati Over siz *The har process of Injection temper Mold te	e tensile s rength ion ze factor (dness of h conditions (on rature	strength (OSF)* neat treatme (Especially t Zone 180	1.15 ent and c he sinterin e 1 Z	50±0.003 over size ng tempe fone 2 85℃ 90 ~ 1	factor (OSF rature) for re Zone 3 190°C	⁻⁾ are relat	≥240MP ≥209 7.9-1280° red to custo ily.	
After Sintering	Ultimate Yield str Elongati Over siz *The har process of Injection temper Mold to Screw	e tensile s rength ion ze factor (rdness of h conditions (on rature emperatu	strength (OSF)* neat treatme (Especially t [Specially t 180 ure	1.15 ent and c he sinterin e 1 Z	50±0.00 over size ng tempe 50ne 2 85°C 90 ~ 1 50 r	factor (OSF rature) for re Zone 3 190 °C 25 °C	⁻⁾ are relat	≥240MP ≥209 7.9-1280° red to custo ily.	
After Sintering	Ultimate Yield str Elongati Over siz *The har process of Injection Mold te Screw Injection	e tensile s rength ion ze factor (rdness of h conditions (on rature emperatu speed	strength (OSF)* neat treatme (Especially t Zone 180 Ire	1.15 ent and c he sinterin e 1 Z	50±0.003 over size ng tempe one 2 85℃ 90 ~ 1 50 r 10 c	factor (OSF rature) for re Zone 3 190 °C 25 °C /min	⁻⁾ are relat	≥240MP ≥209 7.9-1280° red to custo ily.	
Typical Characteristics After Sintering Injection Molding	Ultimate Yield str Elongati Over siz *The har process of Injection Mold te Screw Injection	e tensile s rength ion ze factor (idness of h conditions (on rature emperatu speed on speed	strength (OSF)* neat treatme (Especially t IRE IRE	1.15 ent and c he sinterin e 1 Z	50±0.003 over size ng tempe 85℃ 90 ~ 1 50 r 10 c 900	factor (OSF rature) for re Zone 3 190°C 25 °C /min m ³ /s	⁻⁾ are relat	≥240MP ≥209 7.9-1280° red to custo ily.	

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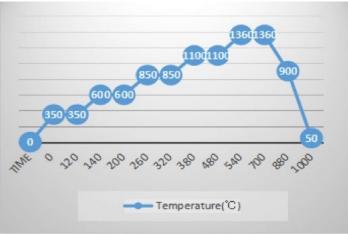
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*As reference for forming conditions, due to differences in molding machine and mold, molding conditions should be adjusted, be sure to ensure the actual temperature is not higher than 200°C, otherwise it will greatly reduce the service life of the raw materials and cause irreversible damage to the material.

DebindingRecommend the use of the concentration of 98% HNO3 smoke, 2 stage
catalytic debinding temperature 110~145°C and 160~190°C, the debinding
process is finished when a minimal debinding loss of 6.6% is reached.
Need to pay attention on the oxygen content in furnace cannot be over
4.5% (volume fraction) in debinding process, it will cause an explosion if
exceed; however embryo easily absorbs the moisture in the air after
debinding, therefore, it is not recommendable to see whether the
debinding craft is finished by identifying its debinding rate, in addition, it is
better in mezzanine without POM in the product.

SinteringA typical sintering cycle is: room temperature to 5°C per minutes up to 600
°C, hold for 60 minutes, with 5°C per minute up to 1360°C (The
characteristics of the sintering furnace are different, the maximum
temperature is for reference only. The specific temperature is based on the
test result), hold for 180 minutes, and then with the furnace cooling.
(Follow the sintering curve)



This data in this publication are based on our current knowledge and experience. All rights are reserved for adjusting the material parameters as we keep improving our products. Parameters are adjusted according to different product, the users should try the feasibility before mass production.