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Kadam® MIM 4J29

	system	n and car	•	directly	for inje			-	/tic debino al granule	
Product Standard	Item			ι	Unit		Specification		Test method	
	Melt flow index (MFI)			g/1	g/10min		1000±500		ISO1133	
	Green part density			g/	g/cm ³		5.68±0.03		ISO3369	
	Sintering density			-	g/cm ³		>7.8		ISO3369	
Powder Composition (wt%)	С	Mn	Ni	Со	Cu		0	Si	Fe	
	<0.03	<0.50	28~30	16~18	<0.1	5 <	<0.35	<0.20	Bal.	
Typical Characteristics			ic debindi strength	ng syste	em.				≥450MP	
				ng syste	em.				>45014D	
Typical Characteristics After Sintering		e tensile s		ng syste	em.				≥450MP; ≥240MP	
	Ultimate	e tensile s rength		ng syste	em.					
	Ultimate Yield sti Elongat	e tensile s rength	strength			03 (Sir	intering	density	≥240MP	
	Ultimate Yield sti Elongat Over siz *The har	e tensile s rength ion ze factor of rdness of l	strength (OSF)* heat treatm	1. ²	50±0.0 over siz	e factor	or (OSF)	are relat	≥240MP ≥209 7.9-1280℃ ed to custo	
	Ultimate Yield sti Elongat Over siz *The har	e tensile s rength ion ze factor of rdness of l	strength (OSF)*	1. ²	50±0.0 over siz	e factor	or (OSF)	are relat	≥240MP ≥209 7.9-1280℃ ed to custo	
	Ultimate Yield sti Elongat Over siz *The har	e tensile s rength ion ze factor dness of conditions	strength (OSF)* heat treatm	1. ² nent and the sinte	50±0.0 over siz	e factor	or (OSF)	are relat	≥240MP ≥209 7.9-1280° ed to custo ly.	
After Sintering	Ultimate Yield str Elongat Over siz *The har process o	e tensile s rength ion ze factor dness of l conditions	strength (OSF)* heat treatm (Especially Zor	1. ² nent and the sinte	50±0.0 over siz ing temp	e factor perature Zor	or (OSF) e) for ref) are relat	≥240MP ≥209 7.9-1280° ed to custo ly.	
After Sintering	Ultimate Yield str Elongat Over siz *The har process of	e tensile s rength ion ze factor dness of l conditions	strength (OSF)* heat treatm (Especially Zor 18	1. ⁴ nent and the sinte	50±0.0 over siz ing temp Zone 2 185℃	e factor perature Zor	ne 3) are relat rerence on Nozzle	≥240MP ≥209 7.9-1280° ed to custo ly.	
After Sintering	Ultimate Yield str Elongat Over siz *The har process of Injection tempe Mold tr	e tensile s rength ion ze factor dness of conditions on rature	strength (OSF)* heat treatm (Especially Zor 18	1. ⁴ nent and the sinte	50±0.0 over siz ing temp Zone 2 185°C 90 ~ 50	zor Zor 19 125 °C	ne 3 90°℃) are relat rerence on Nozzle	≥240MP ≥209 7.9-1280° ed to custo ly.	
After Sintering	Ultimate Yield str Elongat Over siz *The har process of Injection tempe Mold to Screw	e tensile s rength ion ze factor dness of conditions on rature emperatu	strength (OSF)* heat treatm (Especially Zor 18 ure	1. ⁴ nent and the sinte	50±0.0 over siz ing temp Zone 2 185°C 90 ~ 50	e factor perature Zor 19 v 125 °C	ne 3 90°℃) are relat rerence on Nozzle	≥240MP ≥209 7.9-1280° ed to custo ly.	
After Sintering	Ultimate Yield stu Elongat Over siz *The har process of Injection Mold tu Screw Injection	e tensile s rength ion ze factor idness of conditions on rature emperatu speed on speed ng pressu	strength (OSF)* heat treatm (Especially Zor 18 ure	1. ⁴ nent and the sinte	50±0.0 over siz ing temp Zone 2 185°C 90 ~ 50 10 90	ze factor perature Zor 19 2125 °C 0 r/min cm ³ /s 00 bar	ne 3 90 °C 3) are relat rerence on Nozzle	≥240MP ≥209 7.9-1280° ed to custo ly.	
After Sintering	Ultimate Yield str Elongat Over siz *The har process of Injection Mold tr Screw Injection Moldin	e tensile s rength ion ze factor dness of conditions on rature emperatu speed on speed	strength (OSF)* heat treatm (Especially Zor 18 ure	1. ⁴ nent and the sinte	50±0.0 over siz ing temp Zone 2 185℃ 90 ~ 50 10 90 90 90	ze factor perature Zor 19 2125 °C 0 r/min cm ³ /s	ne 3 P0 °C C S) are relat rerence on Nozzle	≥240MP ≥209 7.9-1280° ed to custo ly.	

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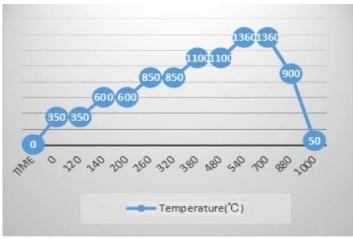
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Kadam[®] MIM 4J29

*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.

A 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 information is compiled according to our knowledge, for reference only. We will keep the right to change the range of parameters within the process or product development scope. Due to we cannot control the various production conditions of different factories, please test the applicability of the user before production.

Sintering