Data Sheet -ZDXPOM 304LB



(材料属性参考表)

(1411)/14122	5 7 7										
产品	304LB(通用型)										
Product	304LB		itine use)							
产品描述	金属注射成型原料										
Product description	Edstock for metal injection moulding.										
收缩率 Oversize factor	1.162		1.165		1.168 May						
Oversize factor	Min.		Average		Max.						
熔体流动指数 MFI	800		1200		1600		DIN EN ISO 1133 (190°C/21.6kg)				
g/10min	Min.		Average		Max.						
烧结后典型成分		Fe	C	Cr	Ni	Mo	Mn	Si	S	P	
(按重量百分比计算) Typical composition after Sintering	>	-	-	18.0	8.0	-	-	-	0	0	
	<	Bal.	0.03	20.0	11.0	-	2.0	1.0	0.03	0.035	
	项目					烧结器			热处理		
典型特性 Typical properties	Project				as sintere						
	密度 Density				>7.85 g/cm ³						
	屈服强度										
	用放矩度 Yield strength Rp02				>160 MPa						
	抗拉强度 Tensile strength				>480 MPa						
	延伸率 Elongation A10				>40 %						
	硬度 Hardness				100-150 HV10						
	盐雾测试			72 h							
	五分例以 Salt spray test										
						·段	二段	三段	四段	射嘴	
	建议注射温度					₹X 85°C	—€X 185°C	=£X 175°C	150°C	列門 190°C	
	Recommended injection temperature					one 1	Zone 2	Zone 3	Zone 4	Nozzle	
	建议模具温			Zono I Zono J Zono T Nozzio							
	Recommended injection temperature				90-125°C						
	参考生坯密度区间										
注塑工艺	Reference density interval				5.43-5.48 g/cm ³						
Injection process	其余注塑	工艺参	数受到产	产品形状力	及要求影	响较大,	故未写出	o			
	需要注意的是, 注塑工艺的设定对于产品的生坯密度有着较大的影响, 而这也可能导致										
	产品最终尺寸和其他要求不符使用者的期望。										
	Other injection molding process parameters are greatly affected by product shape and										
	requirements, so they are not written out.										
	It should be noted that the setting of injection molding process has a great influence on the										

green density of the product, which may also cause the final size of the product and other

requirements do not meet the user's expectations.

	脱脂酸	98% HNO ₃				
	Debinding acid					
	脱脂温度	100-150°C				
脱脂工艺 Demanding process	Debinding temperature					
	脱脂时间	取决于零件厚度				
	Debinding time	Depending on part thickness (e.g. 3mm part approx. 3h)				
	IIX IIV 272	当生坯最低脱脂率,达到7.2%时,可以终止脱脂制程。				
	脱脂率	When the minimum debinding rate of green part reaches				
	Debinding rate	7.2%, the debinding process can be terminated.				
	烧结气氛	怎 点找 				
烧结工艺		氢气烧结				
	Sintering atmosphere	100% dry argon				
	烧结载具	氧化铝陶瓷片				
	Sintering substrate	Non-metallic base (e.g. Al2O3)				
		从室温升高至 600℃过程中,采用有多段持温的负压				
		脱脂,以确保剩余粘结剂能被脱脂干净,总时间				
	负压脱脂 Negative pressure debinding	450min 左右。				
		From room temperature to 600 °C, vacuum debinding				
	regulive pressure desinants	with multi-stage holding temperature is used to ensure				
		that the remaining binder can be removed completely,				
		and the total time is around 450 min.				
		从 600℃以 3℃/min 升温至 850 摄氏度持温一段时间				
Sintering process		进行真空内烧,目的是确保产品碳含量在合理区间。				
	真空烧结	From 600 °C to 850 °C at 3 °C / min and holding for a				
	Vacuum sintering	period of time, the vacuum internal sintering is carried				
		out to ensure that the carbon content of the product is in a				
		reasonable range 。				
		从 850°C以 3°C/min 升温至 1050°C后短暂持温,之后				
		以同样的升温速度升高至 1380℃, 使得材料致密化,				
	0 - 11.71	最后随炉冷却。				
	分压烧结	From 850 °C to 1050 °C at 3 °C/ min, holding for a short				
	Partial pressure sintering	time, and then it was raised to 1380 °C at the same				
		heating rate for material densify, and finally cooled with				
		the furnace.				
/口 ⊏ #□						
保质期	如果储存得当: 12 个月, 防止原料受潮。					
Shelf life	If stored appropriately, 12 months. Protect feedstock against moisture.					

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Disclaimer: This datasheet is only based on our knowledge and experience, which has certain reference significance. However, it cannot completely exclude the user's non-compliance with expectations due to various reasons, because there exist many uncontrolled factors affecting the final requirements and performance of the products.