

# Material Datasheet 6

Material : Polyamide (N		Trade Name : Zincoloy PA3377R			
	Material : Polyamide (Nylon) 30% Fiber				
Color No. : All Colors REACH N2580 Compliance				¯   ★ ★	
				COMPLIANCE	
Properties	Test Method	Test Condition	Unit	Typical Value	
Physical					
v	ASTM D792		g/cm <sup>3</sup>	1.35 - 1.40	
Mold Shrinkage, normal	ISO 294	60 x 60 x 2mm	%	0.4 - 0.6	
Water Absorption	ASTM D570	23°C	%	0.15 - 0.25	
Rheological					
Melt Flow Index	ASTM D1238	200°C - 5kg	g/10min	30 - 35	
Mechanical					
Tensile Strength	ASTM D638	23°C	kg/cm <sup>2</sup>	160 - 180	
8	ASTM D638	23°C	%	2.6 - 2.8	
Flexural Modulus	ASTM D790B		MPa	8800 - 9000	
Izod Impact	ASTM D256	V-notched, 1/8"	kg.cm/cm	9 - 10	
Electrical					
Volume Resistivity	ASTM D257	1.5mm - normal		$1E13 (10^{13} \text{ Ohm.cm})$	
	ASTM D257	1.5mm - conditional		$1E11 (10^{11} \text{ Ohm.cm})$	
Thermal					
Heat Distortion Temp.	ASTM D648	Unannealed	°C	min 200	
<b>Recommended Inject</b>	tion Molding P	arameters			
J.	Value	Mold Temperature	Value		
	220 - 280°C	Fixed Half	80 - 120°C	2	
	220 - 280°C	Moving Half	60 - 80°C		
	220 - 280°C	Injection Pressure	200 - 400	Bars	
	210 - 280°C	Hold on Pressure	20 - 100 B		
Nozzle	160 - 230°C	Screw Back Pressure	10 - 80 Bars		
		Screw Speed	50 - 200 R	PM	
		Drying Hour	2 - 6		
		Drying Temperature	80°C		



### **Nylon Fibre Source**

Our Nylon Fibre sources are mainly from industrial waste in Japan, which are cleaner, more reliable and consistent.

Some rejected product samples were collected directly from the factory.



#### **Automotive Parts**



**Office Chair** 



**Cable Tie** 



Brush



# **Finished Product**

### **BOSCH - Power Tool Handle**

