

Product description :4 meters length,ESD wheel iron roller track

The specification of empty rolet track	The specification of wheel	The height of roller track	Packing specification	Package quantity	Weight	
Length: 4000MM	Diamete: 34MM	43MM	4050*130*95 MM	4 PCS	4.64KG/PC	
Wide: 39MM	Wide: 20MM					
Height: 35MM	Thickness: 2MM					
The material of wheel		PP/PP+ESD				
The requirement of chute thickness		The thickness is require in 0.8mm.				
The color of wheel		Yellow PP wheel/back PP wheel/ESD black wheel				
The curved profile is horizontal		The height of the structural beam is require in 15mm.				
Production technology		Extrusion+assemble				
Production process	Punching	Deburring	Squeezing	Cutting	Assemble the wheel	Package
	Punching machine	Flanging machine	Extruding machine	Cutting machine	Assembly machine	PVC plastic bag

Raw material characteristics

The raw materil of iron roller track:SGCC galvanized sheet

Galvanized sheet's chemical componen

The iron pipe material's chemical composition	C	Si	Mn	p	s	A lt	Ti	Nb	Other
	x10 ⁴	x10 ²	x10 ²	x10 ³	x10 ³	x10 ³	x10 ⁴	x10 ⁴	x10 ⁴
percentage:%	310	1	22	4	41	16	10	10	
Characteristics	Yield strength (Y.S)	Tensile Strength (T.S)	Percentage elongation after fracture (EL)	r90	n90	BH ₂	The zinc layer is bending BT	TOP	BOP
	N/m ²	N/m ²	A80mm%			N/mm ²		G/m ²	G/m ²
	239	345	38.0				OK	40.00	40.00

The raw material of wheel: NINGBO Formosa Plastics:No.3015 PP

The 3015PP Material properties data

Capability item	Test condition	Test way	Test date	Test unit	
Basic characteristics	Melt flow rate	---	ASTM D-1238	2	g/10min
	Density	---	ASTM D-792	0.9	g/cm ³
Mechanical characteristics	Tensile strength at the yield poin	---	ASTM D-638	250	kg/cm ²
	Elongation at break	---	ASTM D-638	450	%
	Rockwell hardness	---	ASTM D-785	95	R
	Stiffness coefficient	---	ASTM D-790	11200	kg/cm ²
	IZOD Notched Izod impact strength(IZOD)	23°C	ASTM D-256	45	kg.cm/cm
	IZOD Notched Izod impact strength(IZOD)	-20°C	ASTM D-256	13	kg.cm/cm
Heat characteristics	Shrinkage	---	YCCI	0.5-1.7	%
	Ageing resistance	---	ASTM D-3045	>500	Hours
	Combustibility	---	UL 94	HB	Grade
	Heat Deflection Temperature	---	ASTM D-648	110	°C

Iron roller track's pressure bearing performance table

Bearing pressure						
Test condition		Pressed depth <mm>	Pressure Speed <mm/min>	Test Length <mm>	Pressure <kgf>	Product status after testing
Empty chute		23	50	1000	165	Deformation,unable to rebound. no rupture.
Bearing pressure						
Test condition		Pressed depth<mm>	Pressure Speed <mm/min>	Pressure <kgf>	/	Product status after testing
One wheel		9	50	165	/	The wheel broke and the iron nail was bent.
Double wheel		9	50	315	/	The wheel broke and the iron nail was bent.
Third wheel		9	50	521	/	The wheel broke and the iron nail was bent.

Iron roller track's ESD data performance table

Test produc		Test equipment	ESD data performance
ESD whee		Surface resistance tester	The aluminum roller track's anti-static index will be keep in 10 ⁶ -10 ⁹ .

Product feature of iron roller track

Feature	Description	Function	Introduction
The design of load-bearing structure (chute)	The bearing support of iron roller track height is 15MM.	The design requirements of bearing capacity improve the bearing capacity of roller track.It is meet the use requirements of carrying capacity.	
Level cross-section+bearing right Angle design	Geometrical design requirements are adopted for the stressed beam and cross section which affect the load-bearing effect of the roller track.	The production requirement of straight beam design level and cross section level.It avoids the impact caused by parabolic structure and meets the use requirement of carrying capacity.	
The design of load-bearing structure(wheel)	Higher requirements were made for the wheels responsible for transportation and high frequency work. 1.The outer diameter of the wheel shall be 9.5mm,the thickness shall be 2.5mm. 2.The thickness requirement of the working face of the wheel is T 2.0mm.	The special design extends the service life of the wheel,increased wear resistance of the wheel and save the cost of replacement and maintenance.	