

NAN YA FR-PA66 MATERIAL SPECIFICATION

GRADE: 6512 ENC1 – Super Toughness NYLON66

PROPERTIES		TEST METHOD	UNIT	VALUE	REFERENCE MOLDING CONDITIONS			
1. Physical	Tensile Strength at Yield	ASTM D638	Kg/cm ²	500	Drying Time	Hrs	4	
	Elongation	ASTM D638	%	----	Drying Temp.	°C	80	
	Flexural Strength	ASTM D790	Kg/cm ²	650	Cylinder Temp Rear	°C	250	
	Flexural Modulus	ASTM D790	Kg/cm ²	16000	Center	°C	260	
	IZOD Impact(23°C)					Front	°C	270
						(-20°C)	ASTM D256	Kg-cm/cm
	(Notched 18) (-40°C)					Mold Temp.	°C	60
	Rockwell Hardness	ASTM D785	R-Scale	105	Injection Press	Kg/cm ²	450-1400	
2. Thermal	Melting Point	DSC	°C	260	Screw Rotation	rpm	180	
	H.D.T(18.6Kg/cm ²)	ASTM D648	°C	60	Speed.			
	Melting Flow Index(MFI)	ASTM D1238	g/10 min	20	Injection Speed	--	fast	
3. Electrical	Volume Resistivity	ASTM D257	Ω · cm	10 ¹⁵	<div style="border: 1px solid black; padding: 5px;"> Injection M/C: 2 OZ ES 50/150 Mold: ASTM Test Bar Gate Size: 5.8x1.2 mm Test Bar Thickness: 3.2 mm Test Condition: 23°C , 50%RH </div>			
	Dielectric Strength	ASTM D149	KV/mm	----				
	Dielectric Constant(10 ⁶ Hz)	ASTM D150	--	2.7				
	Dissipation Factor(10 ⁶ Hz)	ASTM D150	--	0.016				
	Arc Resistance	ASTM D495	sec.	150				
4. Other	Specific Gravity	ASTM D792	--	1.05	NAN YA PLASTICS CORPORATION			
	Mold Shrinkage(MD)	3 mm t	%	1.2				
	Mold Shrinkage(TD)	3 mm t	%	1.5				
	Flammability	UL 94	--	----				
	Remarks							

▲Melting Flow Index Test Condition: 275°Cx2.16 kg ◦