NAN YA FR-PA66 MATERIAL SPECIFICATION

GRADE: 6512 ENC1 – Super ToughnessNYLON66

	GRADE, 031	Z LIVOI	- Super	ioug
	PROPERTIES	TEST METHOD	UNIT	VALUE
1 Physical	Tensile Strength at Yield	ASTM D638	Kg/cm ²	500
	Elongation	ASTM D638	%	
	Flexural Strength	ASTM D790	Kg/cm ²	650
	Flexural Modulus	ASTM D790	Kg/cm ²	16000
	IZOD Impact(23℃)			95
	(-20℃)	ASTM D256	Kg-cm/cm	80
	(Notched 18) (-40°C)			20
	Rockwell Hardness	ASTM D785	R-Scale	105
2.Thermal	Melting Point	DSC	$^{\circ}$ C	260
	H.D.T(18.6Kg/cm ²)	ASTM D648	$^{\circ}$	60
	Melting Flow Index(MFI)	ASTM D1238	g/10 min	20
3.Electrical	Volume Resistivity	ASTM D257	Ω • cm	10^15
	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
4.0ther	Specific Gravity	ASTM D792		1.05
	Mold Shrinkage(MD)	3 mm t	%	1.2
	Mold Shrinkage(TD)	3 mm t	%	1.5
	Flammability	UL 94		
	Remarks			

REFERENCE MOLDING CONDITIONS				
Drying Time	Hrs	4		
Drying Temp.	$^{\circ}\!$	80		
Cylinder Temp Rear	$^{\circ}\!\mathbb{C}$	250		
Center	$^{\circ}\!\mathbb{C}$	260		
Front	$^{\circ}$	270		
Nozzle Temp.	$^{\circ}\!\mathbb{C}$	275		
Mold Temp.	$^{\circ}\!\mathbb{C}$	60		
Injection Press	Kg/cm ²	450-1400		
Screw Rotation	rpm	180		
Speed.				
Injection Speed		fast		

Injection M/C: 2 OZ				
ES 50/150				
Mold: ASTM Test Bar				
Gate Size: 5.8×1.2 mm				
Test Bar Thickness: 3.2 mm				
Test Condition: 23℃,50%RH				

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▲Melting Flow Index Test Condition: 275°C×2.16 kg。



Datasheet

Compound name: TC4PAN

Development name: HTC8863/13

Colour: natural

Hardness: 40.0 Shore A DIN 53505 / ISO 868

Density: 1.15 g/cm³ DIN EN ISO 1183-1:2004

Tensile strength: 2.5 N/mm² DIN 53504 / ISO 37

Elongation at break: 400.0 % DIN 53504 / ISO 37

Tear resistance: 12.0 N/mm DIN ISO 34-1 Methode B (b)

(Graves)

Module: 0.9 MPa DIN 53504 / ISO 37

1.5 MPa DIN 53504 / ISO 37

1.9 MPa DIN 53504 / ISO 37

Processing method: Coinjection Moulding

Shrinkage

Injection moulded plaque, 125 x 125 x 2mm 1.7 %

center gate:

Hard-/soft with

PA 6: tested, values on demand

PA 6.6: tested, values on demand

Indoor/outdoor: Indoor

Certifications and Approvals: UL 94 HB: "Yellow Card" (fire test

according to UL standard)

Remark

The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The results of our tests are determined by sample check and mean only a technical description of our products. It shall not absolve the customer of the responsibility to make tests for his intended process or purpose. Therefore, KRAIBURG TPE makes no warranties and assumes no liability in connection with any use of this information.

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Subject to change and error.



Remarks:	Good weather resistance, 3000 MJ/m2
	in suntester, dE 3.5

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