Ertalon® 66 SA



Please note that Ertalon $^{\scriptscriptstyle (\! \mathbb{R}\!)}$ 66 SA natural r	ods above dia. 1	50 mm a	are made fro	m a mo	odified polyamide 66 resin (Ertalon [®] 66 S
C).					
resistance, its impact strength and mecha Please note that Ertalon [®] 66 SA natural m C). Physical properties (indicative values) PROPERTIES Colour Density Water absorption: - after 24 immersion in water of 23 °C (1) - at saturation in water of 23 °C (1) - at sat water of 23 °C (1) - at saturation in water of 23 °C (
PROPERTIES				Lege	nd:
Colour	-	-	White, Black	1)	According to method 1 of ISO 62 and done on discs Ø 50 mm x 3 mm.
Density	ISO 1183-1	a/cm ³	1.14	2)	The figures given for these properties are for the most part derived from raw material supplier data and other
Water absorption:					publications.
- after 24 immersion in water of 23 °C (1)	ISO 62	%	0.60	3)	Values for this property are only given here for
- at saturation in water of 23 °C		%	8	1	a melting temperature (PBI, PAI, PI).
Thermal Properties (2)			<u> </u>	4)	Temperature resistance over a period of min. 20,000
Melting temperature (DSC, 10 °C/min)	ISO 11357-1/-3	°C	260		hours. After this period of time, there is a decrease in tensile strength – measured at 23 $^{\circ}$ C – of about 50 $^{\circ}$ A
Glass transition temperature (DSC, 20 °C/min) - (3)	ISO 11357-1/-2	°C.	200	1	compared with the original value. The temperature value
Thermal conductivity at 23 °C.	-	W//(K m)	0.28	1	given here is thus based on the thermal-oxidative
Coefficient of linear thermal expansion:	-	vv/(rx.111)	0.20	1	degradation which takes place and causes a reduction in
average value between 22 and 60 °C		m/(m 1/)	90 v 40 c		service temperature depends in many cases essentially
- average value between 23 and 50 C	-	m/(m.K)	00 X 10-0	1	on the duration and the magnitude of the mechanical
- average value between 25 and 100 C	-	11/(1fl.K)	90 X 10-0	5)	stresses to which the material is subjected.
method A: 1.9 MDa	180 75 41 0	°C	05	0)	the minimum allowable service temperature is practically
- method A: 1.8 MPa	150 /5-1/-2	-0	85	-	subjected to impact. The value given here is based on
Max. allowable service temperature in air:					unfávourable impact conditions and may consequently
- continuously : for min. 20,000 h (4)	-	°C	80	6)	These estimated ratings, derived from raw material
Min. service temperature (5)	-	°C	-30	, í	supplier data and other publications, are not intended to
Flammability (6):					reflect hazards presented by the material under actual fire conditions. There is no 'UL File Number' available for
			HB	ł	these stock shapes.
Mechanical Properties at 23 °C (7)				7)	Most of the figures given for these mechanical properties
Tension test (8):				1	of the materials are average values of tests run on <u>dry</u> test specimens machined either out of plate 15-20 mm
- tensile strength (9)	ISO 527-1/-2	MPa	90	1	thick or rod diameter 40-50mm, the test specimens were
- tensile strain at yield(9)	ISO 527-1/-2	%	5		then taken from the stock shape with their length in
- tensile strain at break (9)	ISO 527-1/-2	%	50	8)	longitudinal direction (parallel to the extrusion direction). Test specimens: Type 1 B
- tensile modulus of elasticity (10)	ISO 527-1/-2	MPa	3550	9)	Test speed: either 5 or 50 mm/min [chosen acc. to ISO
Compression test (11):					10350-1 as a function of the ductile behaviour of the
- compressive stress at 1 / 2 / 5 % nominal strain (10)	ISO 604	MPa	32 / 62 / 100	10)	material (tough or brittle) Test speed: 1 mm/min.
Flexural test (12):				11)	Test specimens: cylinders Ø 8 mm x 16 mm
- flexural strength	ISO 178	MPa	135	12)	Test specimens: bars 4 mm (thickness) x 10 mm x 80 mm ; test speed: 2 mm/min ; span: 64 mm.
- flexural modulus of elasticity	ISO 178	MPa	3240	13)	Pendulum used: 4 J.
Charpy impact strength - unnotched (13)	ISO 179-1/1eU	kJ/m²	no break	14)	Measured on 10 mm thick test specimens.
Charpy impact strength - notched	ISO 179-1/1eA	kJ/m²	4.5	15)	Test procedure similar to Test Method A: "Pin-on-disk" as described in ISO 7148-2, Load 3MPa, sliding
Rockwell M-hardness (14)	ISO 2039-2	-	88		velocity= 0.33 m/s , mating plate steel Ra= $0.7 \cdot 0.9 \mu \text{m}$,
Dynamic Coefficient of Friction (-)	ISO 7148-2 (15)	-	0.4-0.6		tested at 23°C, 50%RH.
Wear rate	ISO 7148-2 (15)	µm/km	14	16)	Electrode configuration: \emptyset 25 mm / \emptyset 75 mm coaxial
Electrical Properties at 23 °C					cylinders ; in transformer oil according to IEC 60296 ; 1 mm thick test specimens.
Electric strength (16)	IEC 60243-1	kV/mm	27		min mok lest specimens.
Volume resistivity	IEC 60093	Ohm.cm	>10E 14	This	table is a valuable help in the choice of a material. The
Surface resistivity	ANSI/ESD STM 11.11	Ohm/sq.	>10E13	data	listed here fall within the normal range of product
Relative permittivity ε _r : - at 1 MHz	IEC 60250	-	3.30	and t	erties of <u>dry</u> material. However, they are not guaranteed hey should not be used to establish material specification
Dielectric dissipation factor tan δ: - at 1 MHz	IEC 60250	-	0.02	limits	nor used alone as the basis of design.
lote: 1 g/cm ³ = 1,000 kg/m ³ ; 1 MPa = 1 N/mm ² ; 1 kV/mm = 1 MV/m.			0.02		s to be noted that reinforced and filled material shows an

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