

# Technical data sheet

AWT 8/96 001/005

## FRIANYL A63 RV0

Nylon 6.6 for injection moulding, flame retardant, free of red phosphorus and halogenated flame retardants, rated UL 94 V0.

	Testing Standard	Unit	Values
<b>Product Features</b>			
Abbreviation	ISO 1043	--	----
Density	ISO 1183	g/cm <sup>3</sup>	1,15
Viscosity index	ISO 307	ml/g	135
Water absorption at saturation (+23 °C)	ISO 62	%	6-7
Water absorption (+23 °C)	ISO 62	%	1,8-2,5
Shrinkage longitudinal	ISO 294-4 **	%	1,4-1,7
Shrinkage transvers	ISO 294-4 **	%	1,2-1,4
<b>Material Constants for Flammability</b>			
Flammability	UL-94	HB-V0	V0
Automobile interior fittings: thickness =1mm	FMVSS 302	----	----
Glow Wire GWF1	DIN EN 60695-2-12	----	960
Glow Wire GWIT	DIN EN 60695-2-13	----	775
<b>Mechanical features</b>			
Tensile modulus	ISO 527	N/mm <sup>2</sup>	3500
Tensile strength	ISO 527	N/mm <sup>2</sup>	80
Tensile elongation at break	ISO 527	%	5
Flexural strength	ISO 178	N/mm <sup>2</sup>	----
Charpy impact (+23 °C)	ISO 179/1eU	kJ/m <sup>2</sup>	NB
Charpy impact (-30 °C)	ISO 179/1eU	kJ/m <sup>2</sup>	NB
Charpy impact, notched (+23 °C)	ISO 179/1eA	kJ/m <sup>2</sup>	3
Charpy impact, notched (-30 °C)	ISO 179/1eA	kJ/m <sup>2</sup>	2,5
Surface hardness	ISO 2039-1	N/mm <sup>2</sup>	175
<b>Thermal features</b>			
Melting point	ISO 11357-1	°C	256
Distorsion temp. under load (Meth. A)	ISO 75	°C	85
Distorsion temp. under load (Meth. B)	ISO 75	°C	185
Temp. index applied to 50% falling of tensile strength after 20 000h	IEC 216-1	°C	130
<b>Electrical features</b>			
Volume resistivity	IEC 60093	OHM cm	1 E 15
Surface resistivity	IEC 60093	OHM	----
Dissipation factor (1MHz)	IEC 250	----	0,02
Comparative figure of tracking CTI 50 drops	IEC 60112	----	----
Tracking index (CTI 100)	IEC 112	----	600
Comparative figure of tracking CTI-M 50 drops	IEC 60112	----	----
Tracking index (CTI-M 100)	IEC 112	----	600

\* All values freshly molded, for variations please look in the product description

\*\* Plate 60x60x2mm

Note:

Our leaflets, printings and technical data sheets are to be used only for information and consultation. Reliability can not be assured for production. We ask you to adapt the process and application of these products to the special required conditions.

In so far as they are not specified as colour, the material parameters refer to a non-dyed product – any dyeing can lead to significant changes in the material parameters.

We reserve the right to update the data sheets at any time. As a result previous versions will become invalid.

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