

TECHNYL STAR™

A FT 103

TECHNICAL DATASHEET

VERSION 01

TECHNYLSTAR A205 F NATURAL S

Description **TECHNYLSTAR A205 F NATURAL S** is a **Colors:** it is supplied in natural color.
polyamide 6.6 with low viscosity for fast
cycle moulding.

Main properties **TECHNYLSTAR A205 F NATURAL S**
shows the following properties:

- High Fluidity
- V2 UL 94 Classification
- Glow wire Resistance

Molding We recommend the following settings for
injection molding of **TECHNYLSTAR**
A205 NATURAL S:

- **Cylinder temperature:**
feeding zone: 265° - 275° C
compression zone: 270° - 285°C
mixing zone: 270° - 285°C
nozzle: 280° - 290°C
- **Mould temperature:** 60° - 80°C

Applications This product is indicated for various
applications at automotive and electric &
electronic industries.

Conditioning This material is supplied in 1000 Kg big
bags not sealed or 25 kg waterlight pack
ready for use.

Safety If necessary, please request the safety file
for the product.

TECHNYLSTAR A205 F NATURAL S
Main properties (values measured at 23°C)

Properties		Standard	Units	Eh 0	Eh 50
Physical/Thermal	Specific gravity	ASTM D 792	g/cm ³	1,15	-
	Water absorption - 24 hours at 23°C	ISO 62	%	1,5	-
	Melting point	ASTM 3417	°C	262	-
	Heat deflection temperature:				
	- at 0,45 MPa	ISO 75	°C	153	-
- at 1,80 MPa	ISO 75	°C	69	-	
Behavior to fire	Inflammability at 1,6 mm	UL 94	-	V2	-
	Resistance to incandescent wire 2,0 mm	CEI 695	°C	850	-
Mechanical	TENSILE	ISO 527			
	Tensile modulus		MPa	3300	2270
	Tensile strength		MPa	80	79
	Elongation at Break		%	32	-
	FLEXURAL	ISO 178			
	Flexural modulus		MPa	3070	-
	IMPACT RESISTENCE				
	Charpy unnotched	ISO 179	kJ/m ²	NB	-
	Charpy notched	ISO 179	kJ/m ²	3,4	6,6
	Izod notched	ISO 180	kJ/m ²	3,5	-
Electrical	Transversal resistivity	CEI 93	10 ¹⁴ Ωcm	10	1
	Dielectric rigidity	CEI 93	kV/mm	27	26
	Electric dissipation factor δ - 1MHz	CEI 250	-	0,03	0,08
	Relative permittivity ε _r - 1MHz	CEI 250	-	2,9	3,2
	Running current resistivity KC	CEI 112	V	600	-

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The information contained in this document is supplied in good faith. It is based on the extent of our knowledge of the product as listed, and on the tests and experiments carried out in our laboratories. It is to be used only as an indication and shall not be construed in any way as a formal commitment or warranty on our part. Compliance of our products with your conditions of application or use can only be determined pursuant to your own prior appropriate test.



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Rhodia Poliamida e Especialidades Ltda.
 Estrada Galvão Bueno, 5.505 - Bairro Batistini - São Bernardo do Campo - SP - Brasil
 CEP: 09842-080 - Tels.: 55 - 011 - 4358-7721 - Fax.: 55 - 011 - 4358-7742
 e-mail: info@technyl.com.br - Home page: www.rhodiapoliamida.com.br