

TECHNICAL DATA SHEET

**TECHNYL SAFE A 219FC V30 NC**

TECHNYL SAFE A 219FC V30 NC is a polyamide 66, 30% glass fibre reinforced, heat stabilized with organic stabiliser food contact approved for injection moulding. Designed to be used in moulded parts requiring an excellent combination of thermal and mechanical properties, good hydrolysis resistance and food contact compliance in industrial consumer good as well as appliances applications.

**General**

Feature	UL HB Hydrolysis stabilized Organic heat stabilized	Food contact approved Good stiffness chlorine resistant
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card
Applications	Consumer good application	Industrial Applications
Colors available	Natural	
Forms	Pellets	

**Product identification**

ISO 1043 abbreviation	PA66-GF30
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Condition	Standard	Unit	Value
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**Physical properties**

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm <sup>3</sup>	1.36
Water absorption	24 hr, 23°C	ISO 62	%	0.8
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.35
Molding shrinkage, normal		ISO 294-4, 2577	%	1.1

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	Condition	Standard	Unit	Value
<b>Mechanical properties</b>				<b>dam / cond.*</b>
Tensile modulus	1mm/min	ISO 527-1/-2	MPa	10000 / 7000
Stress at break	5mm/min	ISO 527-1/-2	MPa	190 / 125
Strain at break	5mm/min	ISO 527-1/-2	%	3 / 7
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9000 / 6300
Flexural modulus, ASTM D790	2 mm/min	ASTM D790	MPa	9000 / 7000
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	275 / 215
Flexural strength, ASTM D790	2 mm/min	ASTM D790	MPa	270 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	85 / 95
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	12 / 15
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m <sup>2</sup>	75 / 85
Izod impact strength		ISO 180/1U	kJ/m <sup>2</sup>	12 / 16


**Thermal properties**

Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	260
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	255

**Electrical properties**

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+015
Comparative tracking index	Solution A	IEC 60112	V	400
CTI performance level category		Sol A		PLC 1
Dielectric strength	1 mm	IEC 60243-1	kV/mm	35

**Burning behaviour**

UL Yellow Card availability 	Click here to have access to the UL Yellow Card → <a href="#">E44716</a>			
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Flammability, 3.0 mm	3.0 mm	UL 94		HB
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650

\*: conditioned according to ISO 1110

**Processing conditions**

Drying temperature/time	80°C
Suggested max moisture	0.2 %
Rear temperature	270 - 280 °C
Middle temperature	275 - 285 °C
Front temperature	280 - 290 °C
Recommended mould temperature	70 - 100 °C

**Disclaimer**

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