TECHNYL®

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PRELIMINARY DATASHEET

TECHNYL C 219 V35 GY 7196

Polyamide 6, 35% glass fiber reinforced, heat-aging stabilized, for injection moulding

General

Feature	Heat-aging stabilized	
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card
Colors available	Black	Grey
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA6-GF35
ISO 16396 designation	PA6,GF35,M1H,S14-110

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.41
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.2 - 2.4
Water absorption	24 hr, 23°C	ISO 62	%	1.4 - 1.5
Water absorption, saturation			%	6.1
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10800 / -
Stress at break		ISO 527-1/-2	MPa	185 / -
Strain at break		ISO 527-1/-2	%	3 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9800 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	275 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	95 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	7 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	85 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	7 / -

	Condition	Standard	Unit	Value

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	220
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	215

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Comparative tracking index	Solution A	IEC 60112	V	500
CTI performance level category		Sol A		PLC 1

Burning behaviour

UL Yellow Card availability	Click here to have access to the UL Yellow Card → E170540			
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Flammability, 3.0 mm	3.0 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored products.
**: conditioned according to ISO 1110*

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	240 - 270 °C
Recommended mould temperature	90 °C

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

Injection notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.

Disclaimer