

TECHNICAL DATA SHEET

TECHNYL C 248SI V20 BK 21N

Polyamide 6, 20% glass fiber reinforced, heat-aging stabilized, low temperature impact modified, for injection molding, black

General

Feature	Heat-aging stabilized	Low temperature impact modified
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	

Product identification

ISO 1043 abbreviation	PA6-I-GF20
ISO 16396 designation	PA6-I,GF20,M1H,S14-060

Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm ³	1.22
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.7 - 0.9

Mechanical properties

dam / cond.*

Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	6000 / 3000
Stress at break	5 mm/min	ISO 527-1/-2	MPa	105 / 65
Strain at break	5 mm/min	ISO 527-1/-2	%	4.5 / 12
Yield stress	5 mm/min	ISO 527-1/-2	MPa	110 / 70
Yield strain	5 mm/min	ISO 527-1/-2	%	3.5 / 9
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	5000 / 2500
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	180 / 95
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	75 / 100
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	85 / 85
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	22 / 35
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	13 / 13

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Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
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Burning behaviour

Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100
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Test run at 23°C if not differently specified, DAM state (dry as moulded).
*: 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	250 - 290 °C			
Recommended mould temperature	80 - 100 °C			

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