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TECHNICAL DATA SHEET

TECHNYL C 248SI V40 BK 31N

DOMAMID 6G40IK1H2 BK99

Polyamide 6, 40% glass fiber reinforced, heat-aging stabilized, improved surface finish, low temperature impact modified, for injection molding, black

General

Polymer type	PA6	
Certifications	RoHS	
Feature	heat-aging stabilized low temperature impact modified(obs)	improved surface finish
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA6-I-GF40
ISO 16396 designation	PA6-I,GF40,M1H,S14-110

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.42
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.5 - 2.0
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.05 - 0.25
Molding shrinkage, normal		ISO 294-4, 2577	%	0.45 - 0.65

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	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	11000 / 6500
Stress at break	5 mm/min	ISO 527-1/-2	MPa	175 / 120
Strain at break	5 mm/min	ISO 527-1/-2	%	4.5 / 9.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9500 / 6000
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	295 / 170
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	105 / 115
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	110 / 115
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	28 / 35
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	18 / 18

: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221

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