

TECHNICAL DATA SHEET

## TECHNYL C 246SI V40 NC

### DOMAMID 6G40IK1 NC

Polyamide 6, 40% glass fiber reinforced, low temperature impact modified, for injection moulding, natural color

#### General

Certifications	RoHS
Polymer type	PA6
Feature	low temperature impact modified(obs)
Processing technology	injection moulding

#### Product identification

ISO 1043 abbreviation	PA6-I-GF40
ISO 16396 designation	PA6-I,GF40,M1,S14-120

Condition	Standard	Unit	Value
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#### Physical properties

Condition	Standard	Unit	Value
Density	ISO 1183	g/cm <sup>3</sup>	1.43
Humidity absorption	T=23°C, 50% RH	%	1.4 - 1.8
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.4 - 0.6
Molding shrinkage, normal	ISO 294-4, 2577	%	0.9 - 1.1
Viscosity number	96% H2SO4	cm <sup>3</sup> /g	145.0

	Condition	Standard	Unit	Value
<b>Mechanical properties</b>				<b>dam / cond.*</b>
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	12000 / 7000
Stress at break	5 mm/min	ISO 527-1/-2	MPa	180 / 125
Strain at break	5 mm/min	ISO 527-1/-2	%	5 / 9.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	10000 / 6500
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	110 / 125
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m <sup>2</sup>	105 / 100
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	28 / 35
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m <sup>2</sup>	17 / 17

\*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
<b>Thermal properties</b>				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	216
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	200

	Condition	Standard	Unit	Value
<b>Burning behaviour</b>				
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

<b>Processing conditions</b>	
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