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DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL C 216 S15 V15 NC

DOMAMID 6GB3015 NC

Polyamide 6, 30% glass fiber and glass beads, for injection moulding

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA6	
Colors available	natural	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA6-(GF15+GB15)
ISO 16396 designation	PA6,(GF+GB)30,M1,S14-060

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.36
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.5 - 0.7
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1.1
Viscosity number	96% H2SO4	ISO 307	cm³/g	145.0

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	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	6500 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	125 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	6000 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	175 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	45 / -
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	40 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	6 / -
Rockwell hardness		ISO 2039/2	ScaleR	122 / -

: conditioned according to ISO 1110

	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	215
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	200
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	210

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

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Electrical properties

	Condition	Standard	Unit	Value
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	1.0E13

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Rear temperature	240 - 260 °C
Middle temperature	250 - 270 °C
Front temperature	260 - 280 °C
Recommended melt temperature	240 - 280 °C
Recommended mould temperature	80 - 100 °C