TECHNYL®

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TECHNICAL DATA SHEET

TECHNYL C 218 V60 BK 9275

(Previously DOMAMID 6LVG60H2 BK99275)

Polyamide 6, 60% glass fiber reinforced, heat-aging stabilized, improved flowability, for injection molding

General

Feature	Heat-aging stabilized	Improved flowability
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	

Product identification

ISO 1043 abbreviation	PA6-GF60
ISO 16396 designation	PA6,GF60,M1H,S12-190

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.73
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	20500 / -
Stress at break		ISO 527-1/-2	MPa	175 / -
Strain at break		ISO 527-1/-2	%	2 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	19500 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	275 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	50 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	9 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	45 / -
Izod impact strength		ISO 180/1U	kJ/m²	8 / -
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
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	213

	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Burning behaviour				
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100 mm/min

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)
Suggested max moisture	0.2 %
Recommended melt temperature	270 - 290 °C
Recommended mould temperature	60 - 80 °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.

Disclaimer