TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL AR3 218 V30 BK

TECHNYL AR3 218 V30 BK is a wide specs polyamide 66,reinforced with 30% of glass fibers, heat stabilized, for Injection moulding. (not suitable for hot runners)

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA66	
Feature	heat-aging stabilized	second choice
Colors available	black	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA66,GF30
ISO 16396 designation	PA66,GF30,MH,S14-070

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.35
Humidity absorption	T=23°C, 50% RH (equivalent ISO 1110)	ISO 62	%	2.2 - 2.4
Water absorption	24 hr, 23°C, immersion in water, thickness 2mm	ISO 62	%	0.8
Water absorption, saturation			%	5.3

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Mechanical properties

	Condition	Standard	Unit	Value
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	5000 / -
Stress at break		ISO 527-1/-2	MPa	90 / -
Strain at break		ISO 527-1/-2	%	1.5 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	35 / -

: conditioned according to ISO 1110

Thermal properties

	Condition	Standard	Unit	Value
Melting temperature, 10°C/min		ISO 11357-1	°C	260

Burning behaviour

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

Processing conditions

Drying temperature/time	80°C
Suggested max moisture	0.2 %
Rear temperature	270 - 280 °C
Middle temperature	275 - 285 °C
Front temperature	280 - 290 °C
Recommended mould temperature	70 - 100 °C

Injection notes

The material is supplied in airtight bags, ready for use.,In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C.,Recommended time 2-4h.

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.,The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

DOMO Engineering Plastics