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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL A 218G2 V30 BK 34N

TECHNYL A 218G2 V30 BK 34N is a polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection moulding. This grade has been specially designed to improve its resistance to automotive cooling liquids, increasing lifetime of parts in permanent contact with such liquids.

General

Feature	Heat-aging stabilized High glycol resistant	Hydrolisis stabilized
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Automotive Applications	pump / compressor / ventilator
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66-GF30
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Physical properties							
Density		ISO 1183	g/cm³	1.36			
Water absorption	24 hr, 23°C	ISO 62	%	0.8			
Water absorption, saturation			%	5.3			
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.4			
Molding shrinkage, normal		ISO 294-4, 2577	%	1.1			

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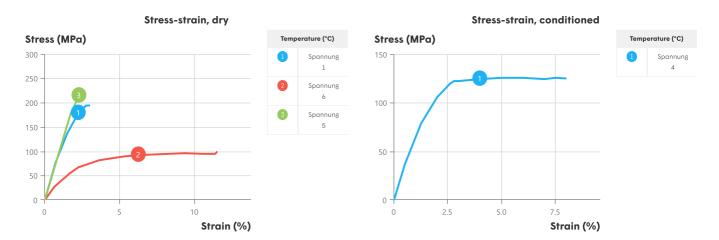
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Machanical properties	Condition			Value dam / cond	
Mechanical properties	1				
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10000 / 7000	
Stress at break		ISO 527-1/-2	MPa	195 / 125	
Strain at break		ISO 527-1/-2	%	3/8	
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	9100 / 6000	
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	290 / 200	
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	87 / 110	
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	75 / -	
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / 15	
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	13 / -	
zod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	10 / 18	
zod notched impact strength, -40°C	-40°C	ISO 180/1A	kJ/m²	12 / -	
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	250	
Thermal properties Melting temperature, 10°C/min		ISO 11357-1	°C	262	
<u> </u>			°C		
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75		250	
Burning behaviour					
Flammability, 1.5 mm	1.5 mm	UL 94		НВ	
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100	
*: conditioned according to ISO 1110					
Processing conditions					
Drying temperature/time	80 °C				
Suggested max moisture	0.15 %				
	270 - 280 °C				
Rear temperature	270 - 200 C				
Rear temperature Middle temperature	275 - 285 °C				

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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.

Disclaimer

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