



TECHNICAL DATA SHEET

TECHNYL A 238F BK

TECHNYL A 238F BK is an unfilled polyamide 6.6 impact modified with an improved flowability, heat stabilized, for injection moulding. This grade offers excellent combination between rigidity and impact resistance at ambient temperature and flowability.

General

Feature	Heat-aging stabilized	Impact resistant		
Polymer type	PA66 (Polyamide 66)			
Processing technology	Injection molding			
Certification	RoHS	EC 1907/2006 (REACH)		
Applications	Automotive Applications	Fasteners		
Colors available	Black			
Forms	Pellets			

Product identification

ISO 1043 abbreviation PA66

Physical properties								
Density		ISO 1183	g/cm³	1.1				
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.5				
Water absorption	24 hr, 23°C	ISO 62	%	1.1				
Molding shrinkage, parallel		ISO 294-4, 2577	%	2.3 - 2.5				
Molding shrinkage, normal		ISO 294-4, 2577	%	2.5 - 2.7				





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	Condition			
Mechanical properties				dam / cond.
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	2500 / 960
Stress at break		ISO 527-1/-2	МРа	50 / 40
Strain at break		ISO 527-1/-2	%	30 / 200
Yield stress		ISO 527-1/-2	МРа	70 / 40
Flexural modulus, ISO 178	2 mm/min	ISO 178	МРа	2400 / 900
Flexural strength, ISO 178	2 mm/min	ISO 178	МРа	45 / 35
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	85 / NB
Charpy impact strength, -30°C	-30°C	ISO 179/1eU		NB / NB
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	17 / NB
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	9/7
Melting temperature, 10°C/min Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 11357-1 ISO 75	°C	263 186
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	186
Electrical properties				
Dielectric strength	1 mm	IEC 60243-1	kV/mm	22
Burning behaviour				
Flammability, 1.5 mm	1.5 mm	UL 94		НВ
*: conditioned according to ISO 1110 Processing conditions				
Drying temperature/time	80 °C			
Suggested max moisture	0.2 %			
Rear temperature	265 - 275 °C			
Middle temperature	270 - 280 °C			
Front temperature	280 - 285 °C			
Recommended mould temperature	60 - 80 °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.





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Injection advice

For unfilled polyamides, Domo recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (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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