TECHNYL®

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TECHNICAL DATA SHEET

TECHNYL A 205F GY 2566

TECHNYL A 205F GY 2566 is an unreinforced polyamide 66 for injection moulding. This grade offers two main advantages: excellent filling qualities and UL 94 V2 under 0.8 mm. It is particularly suitable for the moulding of long parts with thin wall sections

General

Feature	Fast molding cycle	
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card
Applications	Connectors Electrical/Electronic Applications home & office furniture PC / laptop / tablet	Consumer good application Fasteners Industrial Applications
Colors available	Grey	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.14
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3000 / -
Stress at break		ISO 527-1/-2	MPa	80 / -
Strain at break		ISO 527-1/-2	%	9 / -
Yield stress		ISO 527-1/-2	MPa	85 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	3.5 / -
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	263
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	205
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	65

	Condition	Standard	Unit	Value

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	5E+015
Dielectric strength	1 mm	IEC 60243-1	kV/mm	22

Burning behaviour

UL Yellow Card availability	Click here to have access to the UL Yellow Card → QMFZ2 E44716			
Flammability, 0.40 mm	0.40 mm	UL 94		V2
Flammability, 0.75 mm	0.75 mm	UL 94		V2
Flammability, 1.5 mm	1.5 mm	UL 94		V2
Flammability, 3.0 mm	3.0 mm	UL 94		V2

**: conditioned according to ISO 1110*

Processing conditions

Drying temperature/time	80
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.

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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