TECHNYL® A 205F

Product Datasheet – September 2009

Description

Unreinforced polyamide 66, high fluidity, fast cycling grade for injection moulding

Applications

TECHNYL® A 205F offers two main advantages: excellent filling qualities and UL 94 V2 under 0.4 mm. It isparticularly suitable for the moulding of long parts with thin wall sections, such as:

- Cable ties and fasteners
- Connectors

This product is available in natural, black, blue, green, ogange, white and in colours on request

Processing

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,2% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions:

Barrel temperatures:

- feed zone	270 - 275°C
- compression zone	280 - 285°C
- front zone	285 - 290°C

Mould temperatures: 60 at 80°C

Processing

Please refer Safety Data Sheet for TECHNYL® A 205F.

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TECHNYL® A 205F

* This vaules of properties for natural color grade

Properties	Standards	Unit	Values d.a.m*.	Values Cond.**
Physical				
Moisture absorption (24h at 23°C)	ISO 62	%	1.20	-
Specific gravity	ISO 1183	g/㎤	1.14	-
Mould Shrinkage (Parallel)	RHODIA-EP	%	1.90	-
Mould Shrinkage (Perpendicular)	RHODIA-EP	%	1.90	-
Mechanical				
Tensile strength at yield	ASTM D638	MPa	155	-
Elongation at break	ASTM D638	%	2.5	-
Flexural stress at break	ASTM D790	MPa	230	-
Flexural modulus	ASTM D790	MPa	10000	-
Izod notched impact strength	ASTM D256	J/m	80	-
Rockwell hardness	ASTM D786	R scale	118	-
Flamability				
Flammability UL 94 (Thickness=0,4 mm)	ISO 1210/UL94		V-2	-
Flammability UL 94 (Thickness=0.8 mm)	ISO 1210/UL94		V-2	-
Flammability UL 94 (Thickness=1.6 mm)	ISO 1210/UL94		V-2	-
Glow wire flammability index (thickness = 1.6 mm)	IEC 60695-2-12	°C	850	-
Limit Oxygen index	ISO 4589	-	28.5	-
Thermal				
Melting point	ASTM D3418	°C	262	-
Heat Deflection Temperature 1.82 MPa	ASTM D648	°C	80	-
Coef. of Linear thermal expension (23°C to 85°C)	ISO 11359	E-5/°C	7	-
Electrical				
Relative permittivity	IEC 60250	-	2.90	3.20
Dissipation factor	IEC 60250	-	0.03	0.08
Dielectric strength	IEC 60243	kV/mm	27	26
Volume resistivity	IEC 60093	ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	ohm	50E13	10E12
Comparative tracking index sol. A	IEC 60112	Volt	600	600
Comparative tracking index sol. B	IEC 60112	Volt	550	-
Special				

Identification code: >PA66<

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Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Rhodia is at their disposal to supply any additional information.
* d.a.m = Dry As Moulded.
** Cond. = conditioned according ISO 1110.

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