

### Description

Flame retardant polyamide 66, reinforced with 35% of glass fibre, for injection moulding.

### Product Applications

This phosphorous flame retardant grade, UL 94 V0 (0.8 mm), offers excellent filling qualities and with good mechanical properties.

This grade is suitable for moulding insulating parts for electrical devices:

- connectors
- switches
- bobbins, coil formers
- thin parts under stress.

This product is available in natural and black.

### 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                    275 - 280°C
- compression zone        285 - 290°C
- front zone                    290 - 295°C

Mould temperatures: 60 at 80°C

For more detailed information , please refer to the technical sheet Injection moulding.

### Safety

Please refer to the Safety Data Sheet FAF0U3SA8FS

# TECHNYL® A 20 V35

The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
Water absorption (24 h at 23°C)	ISO 62	%	0.60	-
Density	ISO 1183-A	g/cm3	1.46	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.40	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.55	-
Molding Shrinkage Isotropy	RHODIA-EP		0.70	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	12000	10000
Tensile strength at yield	ISO 527 type 1 A	MPa	190	140
Elongation at break	ISO 527 type 1 A	%	2	3
Tensile strength at break	ISO 527 type 1 A	MPa	170	140
Flexural modulus	ISO 178	MPa	10000	7500
Flexural maximum stress	ISO 178	MPa	260	200
Charpy notched impact strength	ISO 179/1eA	kJ/m2	10	12
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	65	70
Izod notched impact strength	ISO 180/1A	kJ/m2	10	12
<b>Flamability</b>				
Flammability UL 94 (Thickness 0,8 mm)	ISO 1210/UL 94		V0	-
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V0	-
Flammability UL 94 (Thickness 3,2 mm)	ISO 1210/UL 94		V0	-
Glow wire flammability index (thickness = 0,8)	IEC 60695-2-12	°C	960	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	960	-
Glow wire ignition temperature (thickness = 0,8)	IEC 60695-2-13	°C	700	-
Limit Oxygen index	ISO 4589		30.5	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	255	-
Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C)	ISO 11359	E-5 / °C	2.5	-
<b>Electrical</b>				
Dissipation factor	IEC 60250		0.02	0.05
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	Ohm	10E12	10E11
Dielectric strength	IEC 60243	kV/mm	25	25
Comparative tracking index sol. A	IEC 60112	Volt	400	375
Comparative tracking index sol. B	IEC 60112	Volt	325	-
<b>Specific</b>				
IMDS id number	Rhodia		10204908 / 5	-

## Identification Code : >PA66-GF35 FR(52)<

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d.a.m\*.

Cond.\*\*



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