

### Description

Polyamide 66, reinforced with 40% of glass fiber, heat stabilized for injection molding

### Applications

TECHNYL® A 218 V40 is used in all sectors of industry, offering excellent combination between thermal stability and mechanical properties.

This grade is widely used for

- Automotive parts : Pedal, Oil filter housing, Cultch master cylinder

This product is available in black color and in colors 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 less than 0.2% with a dehumidified air drying equipment at 80~100°C

Recommended moulding conditions :

-Barrel temperatures :	- feed zone	265-270°C
	- compression zone	270-280°C
	- front zone	280-290°C

-Mould temperatures	80-100°C
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For more detailed information, please refer to the technical sheet " Injection moulding ".

### Safety

Please consult the Safety Data Sheet for TECHNYL® A 218 V40.

# TECHNYL<sup>®</sup> A 218 V40

\* This vaules of properties for black color grade

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
Moisture absorption 24h at 23°C	ASTM D792	-	0.70	-
Specific Gravity	ASTM D792	-	1.46	-
Mould Shrinkage (Parallel)	RHODIA-EP	%	0.4	-
Mould Shrinkage (Perpendicular)	RHODIA-EP	%	0.7	-
<b>Mechanical</b>				
Tensile stress at yield	ASTM -638	MPa	205	-
Tensile strain at break	ASTM D638	%	3	-
Flexural strength	ASTM D790	MPa	305	-
Flexural Modulus	ASTM D790	MPa	11000	-
Izod notched impact strength	ASTM D256	J/m	140	-
<b>Flamability</b>				
Flammability (0.8~3.2mm)	UL 94	-	HB	-
Limit Oxygen index	ISO 4589	-	23	-
<b>Thermal</b>				
Melt Temperature	ISO 11357	°C	262	-
Heat Deflection Temperature, 1.8 MPa	ASTM D648	°C	255	-
Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C)	ISO 11359	E-5/°C	2	-
<b>Electrical</b>				
Dissipation factor	IEC 60250		0.01	0.11
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	E14.Ohm	60E13	10E11
Dielectric strength	IEC 60243	KV/mm	35	30
Comparative tracking index sol. A	ISC 60112	Volt	450	450
<b>Special</b>				

Identification code: >PA66-GF40<

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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.



RHODIA POLYAMIDE Co., LTD.

3<sup>rd</sup> F/L, Kangnam Bldg., 1321-1, Seocho-Dong, Seocho-Gu, Seoul, 131-070 KOREA T: +82 2 21 86 25 00 F: +82 2 34 74 73 63