

Arnite[®] TV4 251 XG2

PBT–GF25 FR(30+40)

25% Glass Reinforced, Flame Retardant (halogen free)

Print Date: 2024–10–15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume–flow rate	18	cm ³ /10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [normal]	1.3	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.7	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	8500	MPa	ISO 527–1/–2
Stress at break	95	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Charpy impact strength (+23°C)	30	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	30	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	5	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	225	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75–1/–2
Burning Behav. at 0.75 mm nom. thickn.	V–2	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	V–2	class	IEC 60695–11–10
Thickness tested	1.5	mm	IEC 60695–11–10

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5	mm	IEC 60695-2-12

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Comparative tracking index	550	V	IEC 60112
Comparative tracking index (PLC)	1	class	UL 746A

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1540	kg/m ³	ISO 1183

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Viscosity-shear rate

