

# Arnite<sup>®</sup> TV4 251 XG2

## PBT-GF25 FR(30+40)

25% Glass Reinforced, Flame Retardant (halogen free)

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>VALUE</b>		
Melt volume-flow rate	18	cm <sup>3</sup> /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
<b>MECHANICAL PROPERTIES</b>			
	<b>VALUE</b>		
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 <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	30	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>VALUE</b>		
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 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75	mm	IEC 60695-2-12

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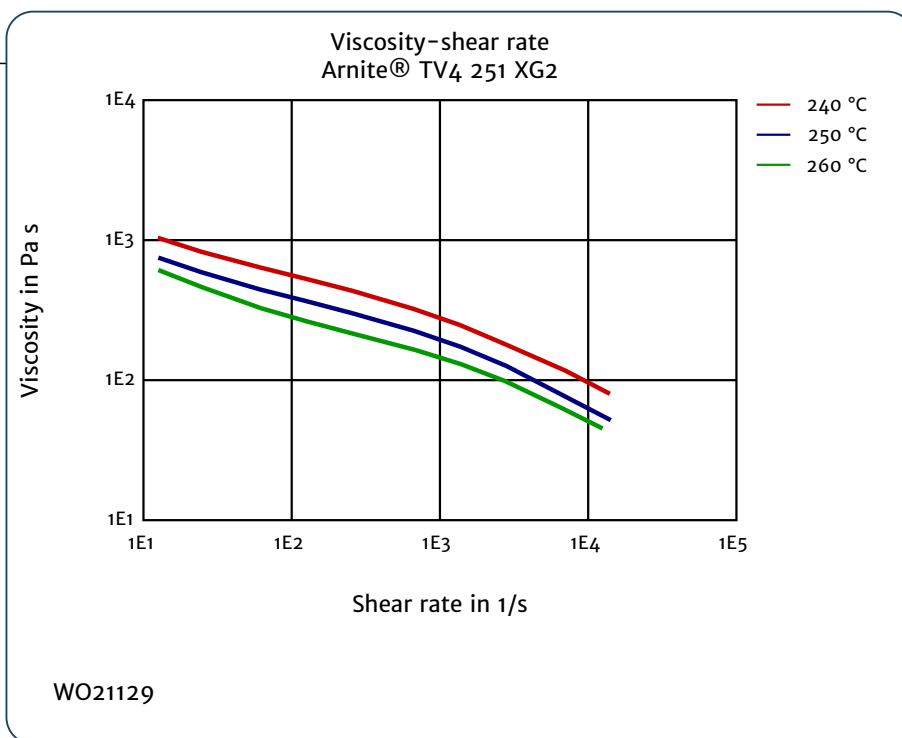
## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5	mm	IEC 60695-2-12
<b>ELECTRICAL PROPERTIES</b>			
	VALUE		
Comparative tracking index	550	V	IEC 60112
<b>OTHER PROPERTIES</b>			
	VALUE		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1540	kg/m <sup>3</sup>	ISO 1183

## Viscosity-shear rate



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