

# Arnite<sup>®</sup> TV4 461 KL

## (PBT+PET)–GF30

30% Glass Reinforced, Heat Stabilized, UV Stabilized, Excellent Surface Properties

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Molding shrinkage [normal]	1.1	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.32	%	Sim. to ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Tensile modulus	9900	MPa	ISO 527–1/–2
Stress at break	130	MPa	ISO 527–1/–2
Strain at break	2.4	%	ISO 527–1/–2
Charpy impact strength (+23°C)	45	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	45	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	9	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	VALUE		
Temp. of deflection under load (1.80 MPa)	205	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	225	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.4	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.6	E–4/°C	ISO 11359–1/–2
<b>ELECTRICAL PROPERTIES</b>			
	VALUE		
Relative permittivity (100Hz)	4.1	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.9	–	IEC 62631–2–1
Dissipation factor (100 Hz)	15	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	160	E–4	IEC 62631–2–1

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index	275	V	IEC 60112
Comparative tracking index (PLC)	2	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	1530	kg/m <sup>3</sup>	ISO 1183

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