

# Arnite<sup>®</sup> LT TV4 261

## PBT–GF30

Laser Transparent Black, Laser Weldable

Print Date: 2024–03–27

Arnite<sup>®</sup> LT TV4 261 is a newly created and improved laser transparent PBT. Its high transparency enables twice as fast laser welding cycle times while still ensuring high dimensional stability for safe and reliable parts (airtight, watertight). It has high design flexibility for molding thin-walled parts as well as thicker parts that require laser-welding, e.g. for rapidly bonding radomes and back covers.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>VALUE</b>		
Melt volume–flow rate	17	cm <sup>3</sup> /10min	ISO 1133
Temperature	275	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.35	%	ISO 294–4
Molding shrinkage (parallel)	0.35	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>VALUE</b>		
Tensile modulus	10200	MPa	ISO 527–1/–2
Stress at break	135	MPa	ISO 527–1/–2
Strain at break	2.5	%	ISO 527–1/–2
Charpy impact strength (+23°C)	45	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	37	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.7	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	7.9	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>VALUE</b>		
Melting temperature (10°C/min)	223	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	205	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75–1/–2

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Electric strength	37	kV/mm	IEC 60243-1
Comparative tracking index	375	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Density	1540	kg/m <sup>3</sup>	ISO 1183

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