Arnite® LT TV4 261

PBT-GF30 Envalior

Product Texts

Laser Transparent Black, Laser Weldable

ISO 1043 PBT-GF30

Arnite® 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.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**17**	cm³/10min	ISO 1133
Temperature	**275**	°C	-
Load	**2.16**	kg	-
[C] Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.4**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**10200**	MPa	ISO 527
[C] Stress at break	**135**	MPa	ISO 527
[C] Strain at break	**2.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**45**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**37**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**8.7**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**7.9**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**223**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**205**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**220**	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Electric strength	**37**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**375**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1540**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Delivery form

Black

Regional Availability

North America, Europe, Asia Pacific

Features

Laser Transparent, Laser Weldable

Other text information

Injection molding

Injection Molding Recommendations