

TECHNICAL DATA SHEET

Arnite® TV4 461 KL

Envalior
(PBT+PET)-GF30

Processing

Injection molding

Delivery Form

Pellets

Additives

Release agent

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Product Text

Product Information

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

ISO 1043 (PBT+PET)-GF30

Mechanical Properties	Value	Unit	Standard
Tensile modulus	9900	MPa	ISO 527
Stress at break	130	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	45	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m ²	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
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	40	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2
Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	4.1		IEC 62631-2-1
Relative permittivity, 1MHz	3.9		IEC 62631-2-1

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Electrical Properties	Value	Unit	Standard
Dissipation factor, 100Hz	15	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	160	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index	275		IEC 60112

Other Properties	Value	Unit	Standard
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1530	kg/m ³	ISO 1183

Processing Information

Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Supporting document for Stanyl quality processing