

TECHNICAL DATA SHEET

# Arnite® TV4 491

Envalior  
(PBT+PET)-GF50

**Processing**

Injection molding

**Delivery Form**

Pellets

**Additives**

Release agent

## Product Text

**Product Information**

50% Glass Reinforced

ISO 1043 (PBT+PET)-GF50

Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	16500	MPa	ISO 527
Stress at break	155	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	55	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	9.5	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	225	°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	225	°C	ISO 75-1/-2
Electrical Properties	Value	Unit	Standard
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

# Arnite® TV4 491

Envalior

Other Properties	Value	Unit	Standard
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1720	kg/m <sup>3</sup>	ISO 1183

## Processing Information

### ***Injection molding***

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Supporting document for Stanyl quality processing