Arnite® AV2 370 XL

Envalior

PET-GF35

Processing	*Delivery Form*
Injection molding	Pellets

Product Text

Product Information

35% Glass Reinforced, Low Outgassing

ISO 1043 PET-GF35

Processing/Physical Characteristics	Value	Unit	Standard
Density of melt	1350	kg/m³	
Thermal conductivity of melt	0.195	W/(m K)	
Spec. heat capacity of melt	1670	J/(kg K)	
Eff. thermal diffusivity	8.67E-8	m²/s	

Mechanical Properties	Value	Unit	Standard
Tensile modulus	13000	MPa	ISO 527
Stress at break	185	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	60	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	9	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	8	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	255	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	225	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	250	°C	ISO 75-1/-2
Vicat softening temperature, B	245	°C	ISO 306

Arnite® AV2 370 XL

Envalior

Thermal Properties	Value	Unit	Standard
Coeff. of linear therm. expansion, parallel	25	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	40	E-6/K	ISO 11359-1/-2

Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	3.7		IEC 62631-2-1
Relative permittivity, 1MHz	3.5		IEC 62631-2-1
Dissipation factor, 100Hz	30	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	130	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	33	kV/mm	IEC 60243-1
Comparative tracking index	250		IEC 60112

Other Properties	Value	Unit	Standard
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1660	kg/m³	ISO 1183

Processing Information

Injection molding

Injection Molding Recommendations
Steel recommendations for molds screws and barrels
Supporting document for Stanyl quality processing