Arnite®

Arnite® TV4 261 HR-HS

PBT-GF30

30% Glass Reinforced, Hydrolysis resistant

Properties	Typical Data	Unit	Test Method
Rheological properties	Value		
Melt volume-flow rate	14	cm³/10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [normal]	1.2	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.33	%	Sim. to ISO 294-4
Mechanical properties	Value		
Tensile modulus	9350	MPa	ISO 527-1/-2
Stress at break	130	MPa	ISO 527-1/-2
Strain at break	3	%	ISO 527-1/-2
Charpy impact strength (+23°C)	60	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	45	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8	kJ/m²	ISO 179/1eA
Thermal properties	Value		
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)	220	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.27	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.65	E-4/°C	ISO 11359-1/-2
Oxygen index	20	%	ISO 4589-1/-2

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Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Electrical properties	Value		
Relative permittivity (100Hz)	3.9	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.7	-	IEC 62631-2-1
Dissipation factor (100 Hz)	25	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	170	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	350	V	IEC 60112
Other properties	Value		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1520	kg/m³	ISO 1183

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