AkiZen AG
Seeberstrasse 7
CH-4132 Muttenz

AkiZen
Asia ◦ Europe ◦ India

Product Information

Product name: PEI VAT002HF

Description
PEI VAT002HF is an unreinforced general-purpose, amorphous, amber Polyetherimide (PEI) resin with high Tg, high heat resistance, high strength and modulus, and high flow. Without adding any additives, it has natural flame retardancy, low smoke and high HDT.

Item	Unit	Typical value	Method
Density	g/cm	1.27	ISO 1183
MFR (337°C/ 6.6 kg)	g/10min.	16-18	ASTM 1238
Water absorption (23°C, sat.)	%	0.2	ISO 62
Mould Shrinkage (length/across)	%	0.5-0.7	ISO 2577, 294-4
Flexural Strength	MPa	155	ASTM D790
Flexural Modulus (23 °C)	MPa	3300	ASTM D790
Tensile Stress	MPa	110	ASTM D638
Tensile Modulus	MPa	3200	ASTM D638
Elongation at break (23 °C)	%	55	ASTM D638
Notched Impact Strength	kJ/m^2	6.0	GB/T1843
Tg (10°C/min)	°C	217	ISO 11357
HDT (1.82 MPa)	°C	190	ASTM D648
Linear expansion coefficient (parallel/quer)	10^{-4}/ °C	0.48/0.51	ASTM E831-19
Dielectric Strength (Air, 1.6 mm)	kV/mm	32	IEC 60243-1
Dielectric Constant (1 MHz)		3.0	IEC 60250
Dissipation Factor (1 MHz)		0.006	IEC 60250
Volume Resistance (100V)	Ω cm	10^{16}	IEC 60093
Surface Resistance (100V)	Ω	$> 10^{16}$	IEC 60093

Packaging
Bags, big bags

Storage
Protect from light and store in a dry place at room temperature

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Injection Moulding Process Guide		
	Drying temperature °C	160
	Drying time, hours	4-6
	Temperature of T1 °C	345-400
	Temperature of T2 °C	340-400
	Temperature of T3 °C	325-415
	Mold temperature °C	130-180
	Nozzle Temperature °C	330-400
The processing of the material should be done as gently as possible in order to keep properties and fibre length in the final part. Pressure, injection speed and temperature should also be aligned to the dimension and shape of the part and injection moulding line.		

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