

Datasheet

Anjaflam® PBT		Anjaflam® PBT 450-FR/GF30 reinforced, 30% glass fiber, flame retarded (V-0)	
Technical Data	Norm	Unit	Value
Rheological properties			
MVR Melt volume-flow rate (260°C/2,16kg)	ISO 1133	cm ³ /10min	10
Relative viscosity number	ISO 1628	OE	
Molding shrinkage parallel	ISO 294-4	%	0,2
Molding shrinkage transverse	ISO 294-4	%	1,0
Mechanical properties			
Tensile modulus of elasticity (1mm/min)	ISO 527-1/2	MPa	10000
Tensile stress at break (5mm/min)	ISO 527-1/2	MPa	130
Elongation at break (5mm/min)	ISO 527-1/2	%	2
Charpy impact strength (23°C)	ISO 179/1eU	kJ/m ²	50
Charpy notched impact strength (23°C)	ISO 179/1eA	kJ/m ²	7,5
Thermal properties			
Melting temperature	DSC	°C	224
Heat deflection temperature HDT A (1,8MPa)	ISO 75	°C	205
Heat deflection temperature HDT B (0,45MPa)	ISO 75	°C	215
Vicat softening temperature (50K/h 50N)	ISO 306	°C	210
Flammability UL94-V (1,5mm)	UL94-V	OE	V-0
Yellow card / thickness tested		OE	1,5
Electrical properties			
Electric strength	IEC 60243	kV/mm	25
CTI	IEC 112	OE	200
Glow-wire flammability test GWFI (4,0mm)	DIN EN 60695-2-12	°C	960
Physical properties			
Water absorption (23°C/Water)	ISO 62	%	0,4
Humidity absorption (23°C/50%r.h.)	ISO 62	%	0,1
Density (23°C)	ISO 1183	g/cm ³	1,650
Filler content		%	30
Processing conditions			
Melt temperature		°C	250 - 270
Mold temperature		°C	80 - 110
Predrying conditions (temperature/time)		°C/h	110/4-10
Predrying to max. humidity		%	0,02
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