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Product: TEK THERM AK300HT

Thermal Break Material Specification (Typical Properties)

	Unit	Value	Test Standard
Mechanical Properties			
Flexural strength	MPa	170	ISO 178
Compressive strength at 200°C	MPa	90	ISO 604
Compressive strength at 23°C	MPa	300	ISO 604
Physical Properties			
Density	g/cm ³	1.5 (+/-0.1)	ISO 1183
Water Absorption (24h 23°C)	%	<0.2	ISO 62
Electrical Properties			
Electrical strength	kV/mm	21	IEC 60243-1
Thermal Properties			
Operating temperature*	°C	-40 +200	
Coefficient of linear expansion //	1.0E-6 / K	20	DIN 53752
Thermal conductivity*	W/m.K	0.18	DIN 52612
Flame retardancy		V0	UL94

RoHS Directive

Hazardous products listed in the EU-directive 2011/65/EU (ROHS-directive), §4 section 1, are not used as ingredients in this material.

Benefits

- Asbestos free
- Low heat conductivity
- Excellent tolerances with respect to parallelism
- Long life expectancy > 50 years (dependent on operating conditions)
- Low water absorption
- Good hydrocarbon stability
- Good chemical stability
- Excellent mechanical durability
- Very good electrical properties
- UL 94-V0

*Manufacturers' figures

Disclaimer: These figures are typical values for the material and do not represent a product specification. Properties will vary depending on source of raw material, method of processing, physical form of product, direction of measurement etc.

Updated 11/12/2015.