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Product: TekTherm AK200

## Material Specification (Typical Properties)

	Unit	Value	Test Standard
<b>Mechanical Properties</b>			
Flexural strength	MPa	115	ISO 178:2001
Compressive strength	MPa	109	ISO 826
E-modulus	MPa	4100	ISO 527-1
Elongation at break	%	>20	ISO 527-1
Compressive modulus	MPa	3000	ISO 604:2002
Charpy Impact Strength	KJ/m <sup>2</sup>	-	ISO 180:2000
<b>Physical Properties</b>			
Density	g/cm <sup>3</sup>	1.15	ISO 1183
Water Absorption (24h 23°C)	%	0.95 (max)	ISO 1606
Moisture absorption (saturation)	%	7	ISO 62:1999
<b>Electrical Properties</b>			
Dielectric strength	kV/mm	25	IEC 60243-1
<b>Thermal Properties</b>			
Operating temperature	°C	-40 +160	
Coefficient of linear thermal expansion	°C <sup>-1</sup>	8x10 <sup>-5</sup>	ISO 11359-2
Thermal conductivity*	W/m.K	0.184	ISO 12667
Flame retardance	°C	HB	IEC 60695-11-10
<b>Acoustic Properties</b>			
Velocity	m/s	2770	
Impedance	Rayl/m <sup>2</sup>	3.15	
Attenuation	dB/cm	16.0 @ 5	

### Benefits

- Asbestos free
- Low heat conductivity
- Excellent tolerances with respect to parallelism
- Long life expectancy >25 years
- Low water absorption
- Good hydrocarbon stability
- Good chemical stability
- Excellent mechanical durability
- Very good electrical properties

\*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 28/09/2017