

Technical Data Sheet

EPUMENT 145B

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Page 1 of 1

Product description	EPUMENT 145B – is a three component cast polymer based on an epoxy resin including a more special filler combination consisting of raw materials. Due to state-of-the-art batching, mixing and vibrating engineering, a high performance material is achieved which is homogenous, optimally compact and low on entrapped air.	
Properties	<ul style="list-style-type: none"> • Highest rigidity • Low thermal conductivity • Thermal expansion coefficient adjusted to steel • Lowest creep behaviour under stress influence 	
Application	For casting big weldments or cast constructions e.g. machine parts (pillars, machine stands and engine beds) as well as substructures for assemblies strained by vibration e.g. engines, gear, turbines, centrifuges and test rigs to get a higher static and dynamic rigidity.	
Mechanical data		
• Density	approx. 2,4 g/cm ³	
• Compressive strength *	130 - 150 N/mm ²	
• Flexural strength *	30 - 40 N/mm ²	
• Modulus of elasticity *	40 - 45 kN/mm ²	
• Poisson's ratio	approx. 0,30	
• Logarithmic decrement	0,022	
• Thermal expansion coefficient	approx. 15 · 10 ⁻⁶ K ⁻¹	at 20 °C
• Thermal conductivity	approx. 2,9 W/mK	at 25 °C
• Specific heat capacity	approx. 0,73 J/g K	at 25 °C
• Thermal diffusivity	approx. 1,75 mm ² /s	at 25 °C
• Wall thickness	> 90 mm	
• Maximum grain size	16 mm	
Note	<p>All recommendations for the use of our products are based on years of experience and the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products are suitable for his intended process or purpose.</p> <p>Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefore. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.</p>	

* measured by the testing machine Form + Test Seidner, Typ 502/3000/100SP