

**Description:**

epple-easy 5745 is a two-component, solvent-free cast resin on the basis of polyurethane. The high-viscous material cures to a soft, elastic mould. It is characterized by a balanced ratio between elastic and ductile components. epple-easy 5745 provides good adhesive strength to metals and very good adhesive strength to various plastics.

**Field of application:**

Thanks to its high viscosity, epple-easy 5745 is mainly used for the sealing of gaps on components, subject to vibration. It is characterized by its very low shrinkage, so that no tensions appear within the resin during its curing process epple-easy 5745 is to be applied by means of a dual cartridge.

**Type of blender:**

mini (40 ml): MX 5.4 – 17-s.  
maxi (400 ml): MX 0517-0413

**Type of mastic gun:**

mini: DMA 50 with valve 050-04.  
maxi: DM 400

**Legal regulations:**

RoHS-conform (2011/65/EU): yes

**Application:**

- The surfaces of the assembly components have to be clean and free from dust and grease.
- Components A + B are being mixed homogeneously by the blender
- A dozing nozzle can be fixed to the blender by means of an adapter, where necessary.

**Cleaning of tools:**

With thinner epple 11.

Chemical Basis			
2-comp.-EP	2-comp.-PU	1-comp.-EP	1-comp.-PU

Property of the liquid cast resin			
Property	Standard	Component A	Component B
Viscosity	DIN EN ISO 3219	18,9 Pas	6,1 Pas
Mixed viscosity	DIN EN ISO 3219	17,6 Pas	
Density	DIN 53479	1,29 g/cm <sup>3</sup>	1,22 g/cm <sup>3</sup>
Mixing rate		81 Gew. Teile 80 Vol. Teile	19 Gew. Teile 20 Vol. Teile
Colour of mixture		black	
Pot life	DIN VDE 0291-2	17 min	
Storage	12 months in closed original containers, stored in a dry and cool place (ideal storage temperature: 5 - 30 °C).		



Properties of the cured cast resin		
Property	Standard	Value
Hardness Shore-A Shore-D pendulum hardness / König	DIN 53505 DIN 53505 DIN 53157	64 - 8 s
Tensile test tensile strength elongation at break	DIN EN ISO 527	2,5 MPa 93%
Three-point bending test bending strength bending coefficient	DIN EN ISO 178	- -
Glass transition temperature	DIN IEC 61006	20 °C
Burning behaviour combustibility acc. to DIN combustibility acc. to UL	DIN EN ISO 1210 UL 94	- -
Storage / reduction of weight	epple-Prüfvorschrift	-
Temperature index, criterion reduction of weight 8 %	DIN IEC 60216	-
Thermal ageing 20000 h	DIN IEC 60085	-
Temperature resistance	-	-40 °C to + 160 °C
Thermal conductivity	ISO 8894-1	-
Absorption of water 20 °C / 1 day 20 °C / 2 days 20 °C / 3 days 20 °C / 4 days 20 °C / 7 days 20 °C / 14 days 20 °C / 21 days 20 °C / 28 days 20 °C / 60 days 100 °C / 30 min 100 °C / 60 min 100 °C / 120 min	ISO 62	+ 0,18 % + 0,25 % + 0,32 % + 0,40 % + 0,52 % + 0,69 % + 0,84 % + 0,99 % + 1,21 % + 0,28 % + 0,43 % + 0,66 %
Chemical resistance	epple-Prüfvorschrift	ATF-oil, motor oil, tenside solutions, water
Insulating resistance, film thickness 2 mm	DIN IEC 60167	10 <sup>12</sup> Ω
Volume resistance, film thickness 2 mm	DIN IEC 60093	-
Dielectric strength	DIN IEC 60243-1	-