

Keratherm Adhesives

Property	unit	Adhesive Type		
		Silicone PSA	Silicone GEL	Double-sided Adhesive Foil for FTC
Color		transparent	transparent	white/grey
Foil Type		foils with fiberglass	foils with or without fiberglass	adhesive coating FTC 86/77
Application Temperature	°C	-60 to +250	-60 to +250	-60 to +250
Hardness	Shore A	75	40	40
Adhesive Properties		highly adhesive	slightly adhesive	highly adhesive, filled silicone coating
Peel Resistance* ¹ DIN 53375, DIN 53282, DIN 53283	N	7-15	4-8	22.5
Layer Thickness	mm	10-20	20-35	90
Shelf Life* ²	months	8	8	12

Property	unit	Adhesive Type		
		Acrylate	Acrylate + Wax	Filled Acrylate Adhesive
Color		transparent	transparent	milky
Foil Type		silicone free foils	graphite foil 90/10S	graphite foil 90/15
Application Temperature	°C	-40 to +180	-40 to +150* ³	-40 to +180
Hardness	Shore A	70	80	80
Adhesive Properties		highly adhesive	adhesive and hot-setting wax	filled conductive adhesive
Peel Resistance* ¹ DIN 53375, DIN 53282, DIN 53283	N	10-25	3	4
Layer Thickness	mm	10-20	50	25
Shelf Life* ²	months	12	12	12

*¹ **Peel Resistance:** Peeling at 180°C, peel speed: 300 mm/min.;
Width of test strip: 25 mm; Length of test strip: 220 mm;
Finath test-method in accordance with DIN 53375, 53282, 53283.

*² **Shelf Life:** **Silicone Adhesive** - eight (8) months from date of manufacture provided the material has been stored in its original packaging and at max. 21°C (70°F). and 50% relative humidity.

Acrylate Adhesive - twelve (12) months from date of manufacture provided the material been stored in its original packaging and at max. 21°C (70°F). and 50% relative humidity.

*³ **Phase Change:** phase change occurs at 50-55°C

Notice: When using adhesives as single-sided coating for Keratherm® Thermal Conductivity Films the thermal impedance increases.