



ROGERS HT-800 & KOMPA KB103F TDS COMPARISON SHEET

Properties	Test method	ROGERS HT-800	Test method	KOMPA KB103F	Marks
PHYSICAL					
Color	Visual	Black/Grey/Red	Visual	Black/Grey/Red/White	PASS
Thickness (mm)	Internal	0.79-12.70	GB/T17794-2021	0.8-25	PASS
Density (g/cm ³)	Internal	0.352	ASTM D 1056	0.37±0.03	PASS
Compression Force Deflection.(Kpa)	ASTM D 1056	67	ASTM D 1056	60±10	PASS
Compression Set (%)	ASTM D 1056 (100°C/22hrs/50%)	<5	ASTM D 1056 (100°C/22hrs/50%)	<5	PASS
Water Absorption (%)	Internal	<5	ASTM D 570	<5	PASS
Tensile Strength (kpa)			ASTM D 412	≥300	
Elongation at break (%≥)			ASTM D 412	≥80	
FLAMMABILITY					
Flame Resistance	UL94	V-0	UL94	V-0	PASS
Flame Spread Index (Ls)	ASTM E 162	<35	ASTM E 162	<25	PASS
Smoke Density (Ds)	ASTM E 662	Flaming Mode, 1.5 min<100	ASTM E 662	Flaming Mode, 1.5 min<50	PASS
Burn Length	FMVSS 302	<100 mm/min	FMVSS 302	<100 mm/min	PASS
THERMAL					



Temperature Range(°C)	Internal	-55~200	ASTM D 1056	-60~200	PASS
Thermal Conductivity [W/m.K]	ASTM C 518	0.076	ASTM C 518	0.07	PASS
Low Temperature Flex	ASTM D 1056 -55°C/5 hrs	PASS	ASTM D 1056 -55°C/5 hrs	PASS	PASS
Low Temperature Brittleness	ASTM D 746 -55°C/3 min	PASS	ASTM D 746 -55°C/3 min	PASS	PASS
ELECTRIC					
Dielectric Strength (V/mil)	ASTM D 149	75	ASTM D 149	120	PASS
Dielectric Constant 1 kHz	ASTM D 150	17	ASTM D 150	17	PASS
Dielectric Factor 1 kHz	ASTM D 495	0.005	ASTM D 495	0.005	PASS
Volume resistivity (Ω·cm)	ASTM D 257	10 ¹⁴	ASTM D 257	10 ¹⁴	PASS