

Compound PH-S-607 / Silicon E



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Properties		
	Compound PH-S-607	Silicon E
Type	addition-curing	condensation-curing
Mixing Ratio	9 : 1	100 : 5
Base Compound		
Flash Point	> 200°C	> 250°C
Viscosity (23°C)	5.000 mPa*s	12.000 mPa*s
Hardener		
Flash Point	> 250°C	> 70°C
Viscosity (23°C)	200 mPa*s	2 mPa*s
Reaction Compound		
Viscosity (mixture at 23°C)	4.000 mPa*s	7.000 mPa*s
Pot Life (23°C, up to 60.000 mPa*s)	60 - 100 min.	150 min.
Curing Time (at 1 cm thickness)	23°C 70°C	24 h 60 min. 15 h ---
Cured Rubber (after 30 min. at 150°C)		
Physical Structure	homogeneous	homogeneous
Density (23°C)	1,17 g/cm ³	1,22 g/cm ³
Hardness Shore A (23°C)	30	45
Tensile Strength	1,5 N/mm ²	2,0 N/mm ²
Elongation at Break	130 %	130 %

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Tracking Resistance	CTI > 600	CTI > 600
Surface Resistivity	$5 \times 10^{13} \Omega$	$2 \times 10^{12} \Omega$
Volume Resistivity	dry at 23°C wet at 60°C	$1 \times 10^{14} \Omega \text{ cm}$ $1 \times 10^{12} \Omega \text{ cm}$
Dissipation Factor $\tan \delta$	23°C / 50 Hz 23°C / 5 kHz	290×10^{-4} ---
Dielectric Constant ϵ (at 23°C / 50 Hz)	3,1	3,3
Dielectric Strength (1mm sheet)	23 kV / mm	23 kV / mm
Temperature Resistance	-45°C up to 180°C	-45°C up to 180°C (briefly up to 220°C)