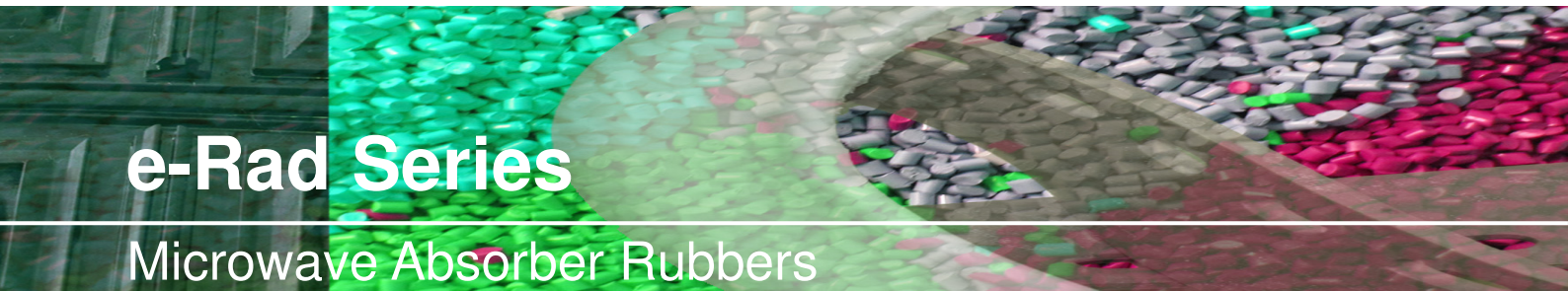




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# e-Rad Series

## Microwave Absorber Rubbers

**e-Rad** are composed of a series of flexible elastomers filled with high dielectric fillers for superior absorption of microwave in low thickness configuration. The materials are designed for outdoor resistance and wide temperature range performance.

The materials are available in sheet form in every thickness with or without pressure sensitive adhesive. For demanding performance it can be easily bonded to metal surfaces by selected adhesives.

These materials are also available as custom molded parts for better adaption to complex shapes. Material composition can be tailored for specific technical performance.

### Material Selection

#### **e-Rad 181**– Chloroprene Rubber

- Excellent weather outdoor and marine environment resistance.
- Good resistance to oil.
- Good bonding to metals.
- Limited low temperature resistance.

#### **e-Rad 361**– Silicone Rubber

- Excellent heat resistance and low temperature resistance.
- Excellent outdoor sunlight and ozone resistance.



Physical Properties	Typical Values							
	Chloroprene				Silicone			
Elastomer Type	<b>e-Rad 181</b>				<b>e-Rad 361</b>			
Grade Name	Dark Grey				Dark Grey			
Color	(-40) to (+100)				(-80) to (+200)			
Operational Temperature, °C	80				60			
Hardness, Shore A, ± 5	3.8 (560)				2.0 (290)			
Tensile Strength, Mpa (psi), Min	400				550			
Elongation, %, Min	4				3.7			
Specific Gravity, gr/cm <sup>3</sup> , ±0.2	4	8	12	16	4	8	12	16
Frequency, GHz	130	210	260	310	110	200	255	265
Attenuation, (dB/in)								