

## EJ-560 SILICONE RUBBER OPTICAL INTERFACE

EJ-560 silicone rubber has been developed specifically for making optical joints between photosensors and plastic scintillators. The rubber material is quite soft and flexible and can be made to conform to contoured surfaces. It is a fully-cured polymer designed so its surfaces are slightly sticky to the touch, and it can be deformed under mild pressure. Nevertheless, it does not flow like a grease and will not extrude irreversibly out of its compression region. Hence it is ideal for long-term coupling of photomultiplier tubes to scintillators.

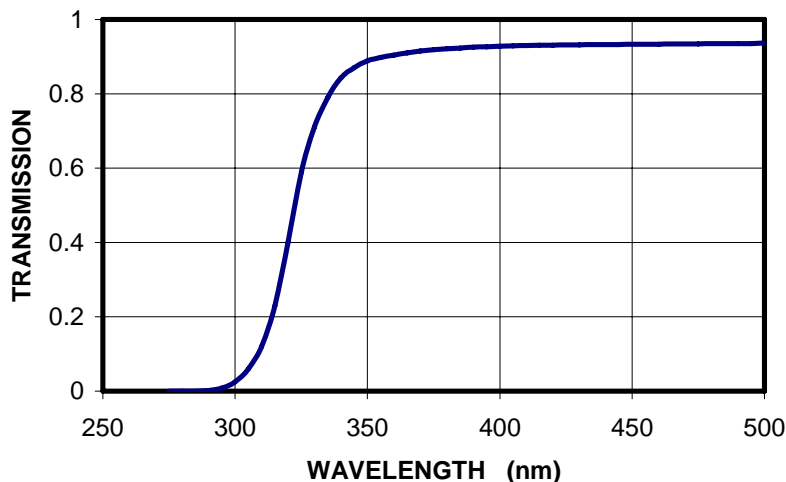
Pads of EJ-560 are presently available in thickness of 1mm, 1½mm, 2mm and 3mm and in diameters ranging from 10mm up to 125mm. It is also available in sheet form and can be easily cut to size with razor blades or scissors. The maximum available sheet size is 33cm x 53cm (33cm x 33cm for 1mm thickness). All EJ-560 products are shipped with the surfaces masked with an easily removed thin film.

EJ-560 rubber will easily adhere to any smooth surface and can also be easily peeled away without damaging either component. If the EJ-560 surfaces become covered with dust, their adhesive properties will be diminished. However, they can be cleaned with the aid of any lower alcohol such as isopropyl alcohol and hence restored to their original condition.

### SPECIFICATIONS

Density, g/cc .....	1.03
Hardness, Shore A .....	16-24
Refractive Index $n_D$ .....	1.43
Operating Temperature Range, °C .....	-40° - +70°
Thermal Expansion Coeff., cm/cm per °C.....	$3 \times 10^{-4}$

**EJ-560 OPTICAL TRANSMISSION  
2mm THICK**



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