



# Electrical Insulation Plate



This 3D printed insulation plate connects relay boards in railway electrical applications. It is printed with Kimya PC-FR, a fire-retardant polycarbonate filament that meets the European railway fire safety standard EN45545-2. 3D printing with PC-FR filament is a more cost- and time-efficient alternative to long lead time/high-cost molding operations, making low-volume production applications like obsolete part replacement viable.

As a Stratasys Validated Material, Kimya PC-FR has been tested and tuned for operation on the Fortus 450mc™ 3D printer.

System	Fortus 450mc™
Material	Kimya PC-FR (fire retardant polycarbonate)
Build Time	3 hrs
Material Used	6.5 in <sup>3</sup> (106.5 cm <sup>3</sup> )
Support Material Used	0.8 in <sup>3</sup> (13.1 cm <sup>3</sup> )