

PSS-1000 Optical Sheet



Ballistic Performance

PSS-1000 optical sheet can be produced in monolithic or laminated form to stop ballistic threats. In monolithic sheet form, PSS-1000 optical sheet demonstrates superior ballistic performance against fragment simulating projectiles (FSPs).

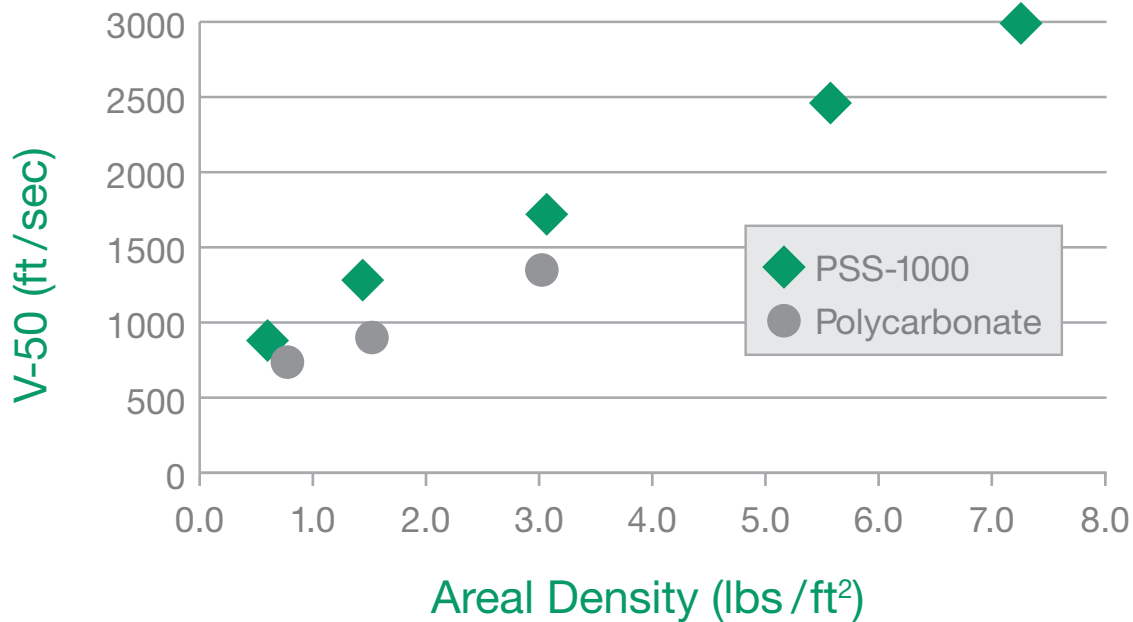
- Against the 0.22 caliber, 17 grain FSP, PSS-1000 optical sheet provides 40% improvement in ballistic protection vs. polycarbonate
- Ballistic performance of PSS-1000 optical sheet remains stable across typical use temperature ranges (-40°C to 60°C)

PSS-1000 optical sheet also laminates well with typical interlayer materials. The excellent solvent and chemical resistance of PSS-1000 optical sheet enable more durable laminated solutions.

The low density of PSS-1000 optical sheet allows for weight savings when replacing polycarbonate, acrylic or glass materials.

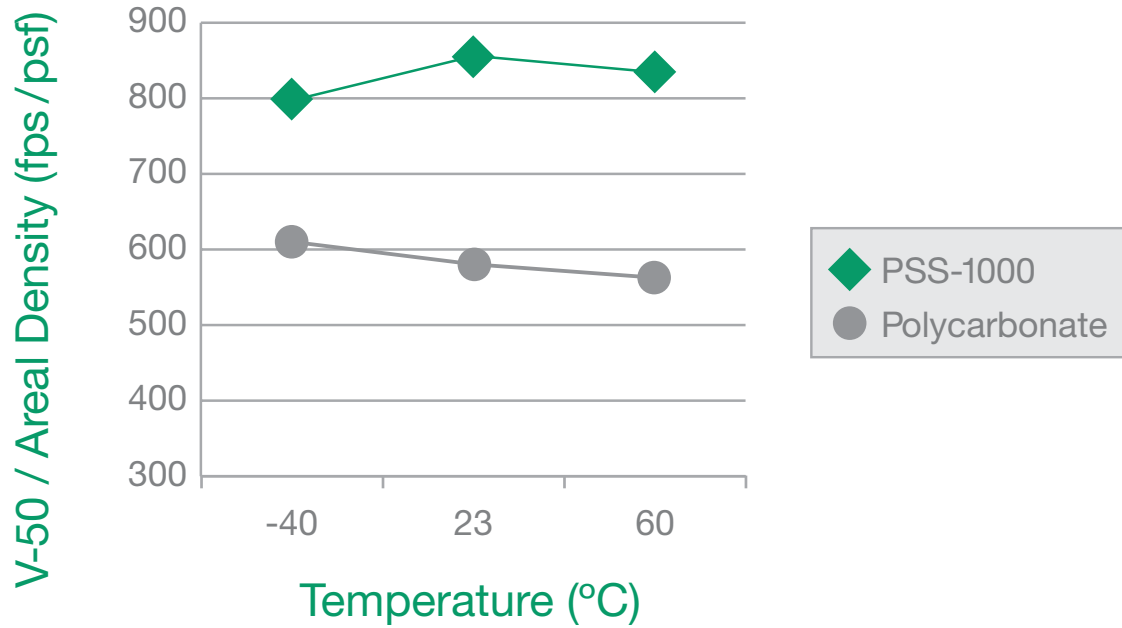
V-50 vs. Areal Density

0.22 cal, 17 gr FSP @ 23°C



V-50 vs. Areal Density vs. Temperature

0.25" Thickness, 0.22 cal, 17 grain FSP



PSS-1000 optical sheet meets NIJ Level III-A protection level defeating the 9-mm FMJ and 0.44-cal MAG projectiles at an areal density of 7.0 lb/ft² and a thickness of 1.23 inches.

