Radel®

SOLVAY

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Radel® PPSU

for Aircraft Interiors

SPECIALTY POLYMERS

Radel® PPSU for Aircraft Interiors

Radel® polyphenylsulfone (PPSU) is a versatile, super-tough plastic that meets existing and emerging safety requirements for structural and decorative aircraft interior components, and it is compliant with stringent FAA regulations requiring low heat release, low smoke generation and low toxic emissions.

Key features

- Exceptional toughness and impact strength
- Meets OSU 65/65 and FAR 25.853 (a & d)
- Molded-in colors eliminate painting
- Best-in-class resistance to cleaning agents
- High flow grades for thin-walled components
- Lower cost paintable grades available

Radel® PPSU replaces aluminum in the world's strongest lightweight fully-recyclable trolley.

manufactured by AEROCAT BEMIS

Thermoforming

As demonstrated in the Boeing 777 flight deck drip tray, the high melt strength of Radel® PPSU makes it possible to thermoform full sheets into large parts with deep draws without excessive thinning or breaking.

Injection Molding

High-flow Radel® grades are widely used for passenger service units, seat video shrouds and other thin-walled decorative components.

Extrusion

Customized extruded profiles offer tailor-made solutions for interior molding.

Typical properties of Radel® PPSU

	R-7300 R-7400	R-7700	R-7159	R-5000 R-5100	R-7558 R-7535
	Premium	Premium	Thin walls	Toughness	Lower cost
Processibility flow at high shear rates	High flow	Low flow	High flow	Medium flow	Medium flow
Painted or non-painted applications	Non-painted	Both	Best for painted	Both	Both
Tensile strength, MPa (kpsi)	75.8 (11.0)	71.7 (10.4)	75.0 (11.0)	69.6 (10.1)	72.5 (10.5)
Izod impact, notched, J/m (ft-lb/inch)	80 (1.5)	133 (2.5)	130 (2.5)	690 (13.0)	160 (3.0)
OSU peak heat release FAR 25.853(d)	Pass	Pass	Pass	—	Pass
NBA smoke density FAR 25.853(d)	Pass	Pass	Pass	Pass	Pass
60-second vertical burn FAR 25.853(a)	Pass	Pass	Pass	Pass	Pass
Toxic gas emission ABD 0031 & BSS 7239	Pass	Pass	Pass	Pass	Pass

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