

Syensqo

PPSU

R-7700

Product information

Manufacturer	SYENSQO
Color	Colors available
Material Shape	Pellets Sheet
Process	Extrusion molding Thermoforming
Material Attribute	Flame retardant Sheet grade Profile grade
Features	Low toxicityDetergent resistantGood moldabilityHigh toughnessLow smoke emission
Application	Aircraft applicationsAerospace applicationsAircraft interiors

Mechanical behavior	Condition	Standard	Value	Unit
Elongation	Break 3.2mm	ASTM D638	15	%
Flexural	Strength 3.2mm	ASTM D790	100	MPa
Flexural	Modulus 3.2mm	ASTM D790	2340	MPa
Gardner	Impact 3.2mm	BS 7271	31.1	J
Izod	Notch Impact 3.2mm	ASTM D256	130	J/m
Izod	Un-notch Impact 3.2mm	ASTM D4812	NB	
Tensile	Modulus 3.2mm	ASTM D638	2280	MPa
Tensile	Strength 3.2mm	ASTM D638	58.6	MPa
Optical performance	Condition	Standard	Value	Unit
Maximum	specific optical density 4.0min		3.0	Ds
Physical property	Condition	Standard	Value	Unit
Density		ASTM D792	1.34~1.42	g/cm ³
Water	Absorption 24hr	ASTM D570	0.35	%
Thermal	Condition	Standard	Value	Unit
HDT	Unannealed 1.8MPa 3.2mm	ASTM D648	202	°C
Heat	Release 65kW/m2 1.52mm~3.18mm	FAR 25.853	20	kW-min/m ²
Heat	Release 65kW/m2 1.52mm~3.18mm Peak	FAR 25.853	55	kW/m ²