

Solvay Specialty Polymers Radel® R-7700 Polyphenylsulfone (PPSU)

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

Material Notes:

Radel® R-7700 polyphenylsulfone sheet was developed specifically for aircraft interior applications. Through the use of a proprietary flame retardant package, this resin offers low heat release, low smoke generation and low toxic gas emissions, thereby complying with the FAA regulation 14CFR Part 25.853 Appendix F. In addition, it has excellent impact resistance and meets typical industry requirements for resistance to aerospace fluids, even under stress. Features: Detergent Resistant; Flame Retardant; Good Processing Stability; Good Toughness; Low Smoke Emission; Low Toxicity Uses: Aerospace Applications; Aircraft Applications; Aircraft Interiors Additional Properties: Heat Release - Ohio State University (1.52 to 3.18 mm): < 20 kW·min/m²; Heat Release - Ohio State University (1.52 to 3.18 mm): < 55 kW/m²; Smoke Density - ASTM F814 3.0 Ds; Smoke Density - ASTM F814 1.0 Ds; Toxic Gas Emissions - 40 ppm; Toxic Gas Emissions - < 1 ppm; Toxic Gas Emissions - < 2 ppm; Toxic Gas Emissions - < 1 ppm; Toxic Gas Emissions - < 1 ppm; Toxic Gas Emissions - 3 ppm Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Radel-R-7700-Polyphenylsulfone-PPSU.php

Physical Properties	Metric	English	Comments
Density	1.34 - 1.42 g/cc	0.0484 - 0.0513 lb/in ³	ASTM D792
Water Absorption	0.35 % @Time 86400 sec	0.35 % @Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength	58.6 MPa @Thickness 3.18 mm	8500 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	15 % @Thickness 3.18 mm	15 % @Thickness 0.125 in	ASTM D638
Tensile Modulus	2.28 GPa @Thickness 3.18 mm	331 ksi @Thickness 0.125 in	ASTM D638
Flexural Strength	100 MPa @Thickness 3.18 mm	14500 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.34 GPa @Thickness 3.18 mm	339 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	1.30 J/cm @Thickness 3.18 mm	2.44 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Mechanical Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
Gardner Impact	>= 31.1 J	>= 22.9 ft-lb	ASTM D3029
	@Thickness 3.18 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	202 Â°C	396 Â°F	Unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Descriptive Properties	Value	Comments
Agency Ratings	AAMA 303; FAA FAR 25.853a; OSU 55/55	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Colors Available	
Form	Pellets; Sheet	
Processing Technique	Extrusion; Profile Extrusion	
	Sheet Extrusion; Thermoforming	

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