

Profine® R8000 Rigid PEI Socket Plate

Test Socket Plate is designed to meet the requirements of the IC Burn-In Test Socket Industry (BITS).

About Profine® R8000 Rigid PEI Socket Plate

Producing holes in conventional engineering plastics is frequently associated with problems such as flash and dimensional changes. To solve such problems, we introduced Profine® R8000. This material has low-flash cutting processability, high dimensional stability and improved toughness. Profine® R8000, is a new super-composite engineering plastic PEI resin-based material resin which can maintain toughness at a high temperature. By adding a high percentage of special inorganic particles to the PEI base resin, Profine® R8000 realizes enhanced toughness, as well as, improved processability and dimensional stability.

Features of Profine® R8000 Rigid PEI Test Socket Plate:

- Excellent processability due to improved toughness
- Low water absorption.
- Low linear expansion coefficient
- High dimensional stability.
- High heat resistance to enable continuous use at 338 F (170 C) or more
- High flame retardancy and low smoke evolution.

Standard Sizes of Profine® R8000 Rigid PEI Socket Plate:

- Plate Thicknesses: 3mm, 5mm, 7.5mm, 10mm, 12.5mm (.118", .197", .295", .394", .492")
- Plate Sizes: 300mm x 1000mm (11.81" x 39.4")

Properties of Profine® R8000 Rigid PEI Test Socket Plate			
Property	Test Method ISO	Unit	Profine® R8000
Tensile Strength	527-2	MPa	77.9
Tensile Elongation	527-2	%	1.05
Elongation Modulus	527-2	MPa	8487
Flexural Strength	178	MPa	165.2
Flexural Modulus of Elasticity	178	MPa	8500
Compressive Strength	604	MPa	168.8
Compressive Elastic Modulus	_*1	MPa	8572
Charpy Impact Test Result	179-1	kJ/m ²	1.53
Coefficient of Linear Expansion	_*2	X10 ⁻⁵ K	4.6
Water Absorption	_*3	%	0.19
Dielectric Constant 10 ⁶ Hz	IEC 60250	-	3.54
Dielectric Dissipation Factor 10 ⁶ Hz	IEC 60251	-	0.0037

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should not be used as a basis for design specifications or quality control. Actual testing in your application is recommended.

- Profine® R8000 is a registered trade name of Professional Plastics, Inc.

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