

RR355-101-SPC

Manufactured by Mechnano

Resin for electrical components

- Isotropic ESD properties
- Excellent surface finish & fine details
- Absence of carbon sloughing



RR100-ESD is a photopolymer resin with a rigid, static-dissipative nature. It utilizes a urethane methacrylate foundation featuring a well-dispersed presence of functionalized carbon nanotubes (D'Func), ensuring a dependable surface resistance while elevating critical mechanical attributes, including Tensile Strength, Flexural Strength, and Impact Resistance.

PROPERTIES

Mechanical Properties	Green	Post-Cured	Units	Method
Ultimate Tensile Strength	99	99	MPa	ASTM D 638-14
Tensile Modulus	2700	3300	MPa	ASTM D 638-14
Elongation at Break	5.5	3.3	%	ASTM D 638-14
Flexural Strength	104	128	MPa	ASTM D 790-15
Flexural Modulus	2700	3500	MPa	ASTM D 790-15
Flexural Strain at Break	7.5	6.0	%	ASTM D 790-15
IZOD Impact Strength (Notched)	23	23	J/m	ASTM D 256-10
Hardness Shore "D"	81	88		ASTM D 2240
Other Properties				
Surface Resistance	10 ⁷	10 ⁷	Ω	ANSI ESD S11.11
Liquid Properties				
Viscosity (25°C) ¹	1200-1300		cps	ASTM D7867
Density	1.1 – 1.2		g/cm ³	ASTM D1475