



CeramaPEEK® NC30 - Ceramic Filled PEEK Test Socket Plate

CeramaPEEK® NC30 PEEK is a ceramic filled compound created to meet the requirements for tight tolerance, high frequency chip socket test fixtures.

Key features are:

Exceptional dimensional stability: low moisture absorption, low creep, high modulus, metal-like CLTE, low coefficient of hygroscopic expansion

Machinable to very tight tolerances: low burring, compatible with tight pitch and fine diameter holes

Good abrasion resistance and ductility: maintains tolerances after 100,000 chip insertions, good impact properties

Very stable electrical properties: low moisture absorption and intrinsically good electrical insulator

Thermal stability: Compatible with wide temperature range, maintains physicals with after heat aging

Typical Properties

GENERAL	ASTM TEST RESULT	
Specific Gravity	D792	1.6
Color		White
Moisture Absorption	D570	0.2%
MECHANICAL		
Tensile Strength	D638	13,000 psi
Tensile Modulus	D638	650,000 psi
Flexural Strength	D790	23,000 psi
Flexural Modulus	D790	650,000 psi
Compressive Strength	D695	17,000 psi
ELECTRICAL		
Dielectric Strength	D149	400 V/mil
Dielectric Constant	D150	3.5 @ 1 KHz
Dissipation Factor	D150	<0.0050
Volume Resistivity	D257	> 10 ¹⁵ ohm-cm
Surface Resistivity	D257	> 10 ¹³ ohm
THERMAL		
HDT, method A	D698	>500oF
UL94	D3801	V-0 at 1.5mm
Tg	D3418	143°C
Thermal Conductivity		2 BTU-in/ft ² -hr-°F
CLTE	E831	20 x 10 ⁻⁶ /°C

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