



UNITREX CM3801 extruded thermoplastic shapes provide users with improved physical properties compared to standard, unfilled PEEK grades through the addition of a proprietary ceramic filler. Additionally, this material offers Continuous Use Temperature of up to 480° F (249° C).

UNITREX CM3801 offers excellent dimensional stability and machinability for tight pitch/small diameter drilling operations and is especially well suited for IC test socket applications. Available in multiple rod and plate configurations by special order in natural white color.

Typical Physical Properties

Property	Test Method	Unit	Nominal Value*
Mechanical			
Specific Gravity	ASTM D792	---	1.5
Tensile Strength	ASTM D638	psi	12,200
Tensile Elongation @ Break	ASTM D638	%	10
Tensile Modulus	ASTM D638	psi	638,000
Flexural Strength	ASTM D790	psi	23,200
Flexural Modulus of Elasticity	ASTM D790	psi	638,000
Izod Impact (notched)	ASTM D256	ft.-lb./in.	1.0
Rockwell Hardness	ASTM D785	M Scale	102
Thermal			
C.U.T. without impact	UL746B	°F	480
Glass Transition (Tg)	ASTM D3418	°F	290
HDT @ 66 psi	ASTM D648	°F	500
Melting Point	DSC	°F	645
Flammability	UL 94	@3.0mm	V-0
Electrical			
Dielectric Strength	ASTM D149	Volts/mil	400
Dissipation Factor	ASTM D150	1 Mhz	0.0005
Volume Resistivity	ASTM D 257	Ohm-cm x 10 ¹⁵	1.0
Surface Resistivity	ASTM D 257	Ohm-cm x 10 ¹³	1.0
Miscellaneous			
Color	--	--	White

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