UNITREX® CM3801

Polyetheretherketone

Nytef Plastics, Ltd.

Message:

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.

General Information	
Filler / Reinforcement	Ceramic Fiber
Features	Good Dimensional Stability Machinable
Uses	Electrical Parts
Appearance	White
Forms	Preformed Parts Rod

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	102		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4400	MPa	ASTM D638
Tensile Strength (Yield)	84.1	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	4400	MPa	ASTM D790
Flexural Strength	160	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	53	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	260	°C	ASTM D648
Glass Transition Temperature	143	°C	ASTM D3418
Melting Temperature	341	°C	DSC
RTI Str	249	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	ohms	ASTM D257
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149

Dissipation Factor (1 MHz)	5.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China