



UNITREX C30 extruded thermoplastic shapes provide users with the toughness, strength and chemical resistance inherent in unfilled PEEK as well as enhanced stiffness and compressive strength with improved dimensional stability through the addition of carbon fiber. UNITREX C30 shapes offer excellent wear resistance and a very low coefficient of friction.

UNITREX C30 is available in multiple rod and plate configurations by special order. Minimum order quantities may apply, dependent on specific product configuration.

Typical Physical Properties

Property	Test Method	Unit	Nominal Value*
Mechanical			
Tensile Strength	ASTM D638	psi	31,900
Tensile Elongation @ Break	ASTM D638	%	2.0
Tensile Modulus	ASTM D638	psi	1,885,000
Flexural Strength	ASTM D790	psi	51,900
Flexural Modulus	ASTM D790	psi	2,610,000
Izod Impact (notched)	ASTM D256	ft.-lb./in.	1.1
Rockwell Hardness	ASTM D785	M Scale	107
Dynamic Coefficient of Friction	PV@25ksi-FPM	--	0.16
Thermal			
C.U.T. without impact	UL746B	°F	460
Glass Transition (T _g)	ASTM D3418	°F	290
HDT @ 264 psi	ASTM D648	°F	600
CTE (linear)	ASTM D 696	in/in- °F	7.8 X 10 ⁻⁶
Flammability	UL 94	@3.0mm	V-0
Miscellaneous			
Specific Gravity	ASTM D792	---	1.41
Water Absorption (24 hr.)	ASTM D570	%	<.2
Color	--	--	Black

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