

# UNITREX® C30

Polyetheretherketone

Nytec Plastics, Ltd.

## Message:

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.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Good Chemical Resistance		
	Good Compressive Strength		
	Good Dimensional Stability		
	Good Toughness		
	Good Wear Resistance		
	High Strength		
	Low Friction		
Appearance	Black		
Forms	Preformed Parts		
	Rod		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm³	ASTM D792
Water Absorption (24 hr)	< 0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ASTM D638
Tensile Strength (Yield)	220	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	18000	MPa	ASTM D790
Flexural Strength	358	MPa	ASTM D790
Coefficient of Friction <sup>1</sup>	0.16		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	316	°C	ASTM D648
Glass Transition Temperature	143	°C	ASTM D3418

CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
RTI Str	238	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-0		UL 94
NOTE			
1.	PV@25ksi-FPM		

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#### 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

